

NIH Patent Licensing Activities
CC
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
CC
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
CC
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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+L-240-17/0	Gladwin, Mark T.	(b)(4);	United Therapeutics Corporation	7-Jun-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS</i>										
+L-111-06/0	Franaszek, Marek	(b)(4);	ICAD Inc	26-Jun-18						
+L-111-06/0	Huang, Hui-Yang	(b)(6)	ICAD Inc	26-Jun-18						
+L-111-06/0	lordanescu, Gheorghe		ICAD Inc	26-Jun-18						
+L-111-06/0	Jerebko, Anna K		ICAD Inc	26-Jun-18						
+L-111-06/0	(b) (4)		ICAD Inc	26-Jun-18						
+L-111-06/0	Roy, David		ICAD Inc	26-Jun-18						
+L-111-06/0	Summers, Ronald		ICAD Inc	26-Jun-18						
+L-111-06/0	Yao, Jianhua		ICAD Inc	26-Jun-18						
<i>Note: L-111-06/0 split between CC; CIT; NIDCD</i>										

NIH Patent Licensing Activities
CC
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
CC
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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+L-122-17/0	Kwak, Jin Tae	(b)(4);	Koninklijke Philips N.V.	24-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-122-17/0	Summers, Ronald	(b)(6)	Koninklijke Philips N.V.	24-Aug-18						
+L-122-17/0	Wood, Bradford J		Koninklijke Philips N.V.	24-Aug-18						

+L-122-17/0 Xu, Sheng
 Note: L-122-17/0 split between CC; NCI

(b)(4); Koninklijke Philips N.V.

24-Aug-18

(b) (3) (A), (b) (4), (b) (6)

+L-122-17/0 CC
 Note: L-122-17/0 split between CC; NCI

Koninklijke Philips N.V.

24-Aug-18

NIH Patent Licensing Activities
 CC
 September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC						
+L-059-18/0	Baecher, Nicolai	(b)(4);	Ping An Technology (Shenzhen) Company It	11-Sep-18						(b) (3) (A), (b) (4), (b) (6)						
+L-059-18/0	Lay, Nathan Stephan	(b)(6)	Ping An Technology (Shenzhen) Company It	11-Sep-18												
+L-059-18/0	Liu, Jiamin		Ping An Technology (Shenzhen) Company It	11-Sep-18												
+L-059-18/0	Summers, Ronald		Ping An Technology (Shenzhen) Company It	11-Sep-18												
+L-059-18/0	Yao, Jianhua		Ping An Technology (Shenzhen) Company It	11-Sep-18												
+L-059-18/0	Baecher, Nicolai		Ping An Technology (Shenzhen) Company It	11-Sep-18												
+L-059-18/0	Lay, Nathan Stephan		Ping An Technology (Shenzhen) Company It	11-Sep-18												
+L-059-18/0	Liu, Jiamin		Ping An Technology (Shenzhen) Company It	11-Sep-18												
+L-059-18/0	Summers, Ronald		Ping An Technology (Shenzhen) Company It	11-Sep-18												
+L-059-18/0	Yao, Jianhua		Ping An Technology (Shenzhen) Company It	11-Sep-18												
+L-010-18/0	Harrison, Adam Patrick		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
+L-010-18/0	Lu, Le		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
+L-010-18/0	Mollura, Daniel Joseph		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
+L-010-18/0	Summers, Ronald		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
+L-010-18/0	Wang, Xiaosong		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
+L-010-18/0	Xu, Ziyue		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
<i>Note: L-010-18/0 split between CC; NLM</i>																
+L-010-18/0	Harrison, Adam Patrick		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
+L-010-18/0	Lu, Le		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
+L-010-18/0	Mollura, Daniel Joseph		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
+L-010-18/0	Summers, Ronald		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
+L-010-18/0	Wang, Xiaosong		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
+L-010-18/0	Xu, Ziyue		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
<i>Note: L-010-18/0 split between CC; NLM</i>																
+L-010-18/0	CC		Ping An Technology (Shenzen) Company LTD	11-Sep-18												
<i>Note: L-010-18/0 split between CC; NLM</i>																

\$96,344.33	\$11,631.60	\$107,975.93	\$22,855.85	\$85,120.08
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
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 April 2018

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					% of Sales/Ann. Min./Exec. Fee	Prosecution Costs	Total April Income			
+L-146-13/0	Gentsch, Jon R.	(b)(4);	Biological E. Ltd.	1-Apr-18					(b) (3) (A), (b) (4), (b) (6)	
+L-146-13/0	Glass, Roger I.	(b)(6)	Biological E. Ltd.	1-Apr-18						
+L-146-13/0	Jiang, Baoming		Biological E. Ltd.	1-Apr-18						
+L-146-13/0	Saluzzo, Jean-francious		Biological E. Ltd.	1-Apr-18						
+L-146-13/0	Wang, Yuhuan		Biological E. Ltd.	1-Apr-18						
+L-070-16/1	Sanchez, Anthony <i>Note: L-070-16/1 split between CDC; NIAID</i>		PaxVax, Inc.	1-Apr-18						
+L-005-14/2	Anderson, Larry J.		Trellis Bioscience	4-Apr-18						
+L-005-14/2	Tripp, Ralph A.		Trellis Bioscience	4-Apr-18						
+L-005-14/2	(b) (4)		Trellis Bioscience	4-Apr-18						
+L-198-13/0	Fields, Patricia		Luminex Corporation	17-Apr-18						
+L-198-13/0	Leaumont, Collette F.		Luminex Corporation	17-Apr-18						
+L-198-13/0	McQuiston, John R.		Luminex Corporation	17-Apr-18						
+L-148-14/2	Butera, Salvatore T.		Merck Sharp & Dohme Corp.	18-Apr-18						
+L-148-14/2	Folks, Thomas M		Merck Sharp & Dohme Corp.	18-Apr-18						
+L-148-14/2	Prez, Victor L		Merck Sharp & Dohme Corp.	18-Apr-18						
+L-186-13/5	Chang, Gwong-Jen J.		Focus Diagnostics, Inc.	23-Apr-18						
+L-186-13/5	Roehrig, John T.		Focus Diagnostics, Inc.	23-Apr-18						
+L-135-17/1	Sanchez, Anthony <i>Note: L-135-17/1 split between CDC; NIAID</i>		Emergent Product Development	25-Apr-18						

NIH Patent Licensing Activities
 CDC
 May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Patent			License Cumulative Income	Inventor Awards May	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Prosecution Costs	Total May Income			
+L-017-17/0	Munoz-Jordon, Jorge L	(b)(4);	Takeda Vaccines, Inc.	1-May-18					(b) (3) (A), (b) (4), (b) (6)	
+L-017-17/0	Santiago, Gilberto	(b)(6)	Takeda Vaccines, Inc.	1-May-18						
+L-017-17/0	Vergne, Edgardo		Takeda Vaccines, Inc.	1-May-18						
+L-223-13/4	Gubler, Duane J.		Takeda Vaccines	1-May-18						
+L-223-13/4	Kinney, Claire Huang		Takeda Vaccines	1-May-18						
+L-223-13/4	Kinney, Richard M.		Takeda Vaccines	1-May-18						
+L-223-13/4	(b) (4)		Takeda Vaccines	1-May-18						
+L-223-13/4	Gubler, Duane J.		Takeda Vaccines	1-May-18						
+L-223-13/4	Kinney, Claire Huang		Takeda Vaccines	1-May-18						
+L-223-13/4	Kinney, Richard M.		Takeda Vaccines	1-May-18						
+L-223-13/4	(b) (4)		Takeda Vaccines	1-May-18						
+L-168-16/0	CDC		Mylan, Inc.	1-May-18						
+L-095-16/1	CDC		Merck Sharp & Dohme	4-May-18						

+L-005-14/2	CDC		Trellis Bioscience	4-May-18	(b) (3) (A), (b) (4), (b) (6)
+L-095-18/0	Olson, Victoria Ann	(b)(4);	NINGBO RONGAN Biological	14-May-18	
+L-095-18/0	Wu, Xianfu	(b)(6)	NINGBO RONGAN Biological	14-May-18	
+L-095-18/0	Yang, Yong		NINGBO RONGAN Biological	14-May-18	
+L-102-18/0	CDC		Becton, Dickinson and Company	21-May-18	
+L-102-18/0	Robertson, Shirley	(b)(4);	Becton, Dickinson and Company	21-May-18	
+L-102-18/0	Sammons, Deborah L.	(b)(6)	Becton, Dickinson and Company	21-May-18	
+L-102-18/0	Smith, Jerome P.		Becton, Dickinson and Company	21-May-18	
+L-205-13/1	Cox, Nancy J.		University of Florida Research Foundatio	29-May-18	
+L-205-13/1	Donis, Ruben O.		University of Florida Research Foundatio	29-May-18	
+L-205-13/1	Katz, Jacqueline M.		University of Florida Research Foundatio	29-May-18	
+L-205-13/1	Klimov, Alexander I.		University of Florida Research Foundatio	29-May-18	

NIH Patent Licensing Activities
 CDC
 June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-167-18/0	Aloisio, Carol H.	(b)(4);	Southern Biotechnology	1-Jun-18	(b) (3) (A), (b) (4), (b) (6)					
+L-167-18/0	Black, Charlotte M.	(b)(6)	Southern Biotechnology	1-Jun-18						
+L-167-18/0	Galland, Gale G.		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Moore, Deborah D.		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Phillips, Donald		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Reimer, Charles B.		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Wells, Thomas		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Aloisio, Carol H.		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Black, Charlotte M.		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Galland, Gale G.		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Moore, Deborah D.		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Phillips, Donald		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Reimer, Charles B.		Southern Biotechnology	1-Jun-18						
+L-167-18/0	Wells, Thomas		Southern Biotechnology	1-Jun-18						
+L-161-14/1	CDC		ZeptoMetrix Corporation	5-Jun-18						
+L-116-14/1	CDC		ZeptoMetrix Corp	5-Jun-18						
+L-175-13/0	Chang, Gwong-Jen J.	(b)(4);	ID-VET Sar1	12-Jun-18						
+L-112-18/0	Anderson, Raydel	(b)(6)	Life Technologies	12-Jun-18						
+L-112-18/0	Benitez, Alvaro J.		Life Technologies	12-Jun-18						
+L-112-18/0	Carvalho, Maria Da Gloria		Life Technologies	12-Jun-18						
+L-112-18/0	Cox, Nancy J.		Life Technologies	12-Jun-18						
+L-112-18/0	Diaz, Maureen		Life Technologies	12-Jun-18						
+L-112-18/0	Erdman, Dean D.		Life Technologies	12-Jun-18						
+L-112-18/0	Hatcher, Cynthia P.		Life Technologies	12-Jun-18						
+L-112-18/0	Klimov, Alexander I.		Life Technologies	12-Jun-18						
+L-112-18/0	Lindstrom, Stephen		Life Technologies	12-Jun-18						
+L-112-18/0	Loftin, Lamorris		Life Technologies	12-Jun-18						
+L-112-18/0	Lu, Xiaoyan		Life Technologies	12-Jun-18						

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-126-13/0	Ashley, Kevin E.	(b)(4);	SKC, Inc.	1-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-126-13/0	Boeniger, Mark F.	(b)(6)	SKC, Inc.	1-Aug-18						
+L-126-13/0	Esswein, Eric J.		SKC, Inc.	1-Aug-18						
+L-101-17/0	Devos, Joshua R.		Life Technologies Corporation	7-Aug-18						
+L-101-17/0	Wagar, Nicholas		Life Technologies Corporation	7-Aug-18						
+L-101-17/0	Yang, Chunfu (Dustin)		Life Technologies Corporation	7-Aug-18						
+L-101-17/0	Zhou, Zhiyong		Life Technologies Corporation	7-Aug-18						
+L-198-16/1	CDC		Codagenix	8-Aug-18						
+L-198-16/1	CDC		Codagenix	8-Aug-18						
+L-160-14/1	Harmon, Maurice	(b)(4);	Millipore Corp.	9-Aug-18						
+L-160-14/1	Kendal, Alan P.	(b)(6)	Millipore Corp.	9-Aug-18						
+L-160-14/1	Stockdale, Carol		Millipore Corp.	9-Aug-18						
+L-160-14/1	Walls, Harriet		Millipore Corp.	9-Aug-18						
+L-155-14/1	Freeman, Charlotte		Millipore Corp.	9-Aug-18						
+L-155-14/1	Pallansch, Mark A.		Millipore Corp.	9-Aug-18						
+L-150-14/1	Maher, Kaija		EMD Millipore Corporation	9-Aug-18						
+L-150-14/1	Pallansch, Mark A.		EMD Millipore Corporation	9-Aug-18						
+L-160-14/1	Harmon, Maurice		Millipore Corp.	9-Aug-18						
+L-160-14/1	Kendal, Alan P.		Millipore Corp.	9-Aug-18						
+L-160-14/1	Stockdale, Carol		Millipore Corp.	9-Aug-18						
+L-160-14/1	Walls, Harriet		Millipore Corp.	9-Aug-18						
+L-160-14/1	Harmon, Maurice		Millipore Corp.	9-Aug-18						
+L-160-14/1	Kendal, Alan P.		Millipore Corp.	9-Aug-18						
+L-160-14/1	Stockdale, Carol		Millipore Corp.	9-Aug-18						
+L-160-14/1	Walls, Harriet		Millipore Corp.	9-Aug-18						
+L-155-14/1	Freeman, Charlotte		Millipore Corp.	9-Aug-18						
+L-155-14/1	Pallansch, Mark A.		Millipore Corp.	9-Aug-18						
+L-155-14/1	Freeman, Charlotte		Millipore Corp.	9-Aug-18						
+L-155-14/1	Pallansch, Mark A.		Millipore Corp.	9-Aug-18						
+L-198-16/1	CDC		Codagenix	9-Aug-18						
+L-198-16/1	CDC		Codagenix	9-Aug-18						
+L-143-13/0	Cox, Nancy J.	(b)(4);	Biotech Research Technologies, Inc.	13-Aug-18						
+L-143-13/0	Klimov, Alexander I.	(b)(6)	Biotech Research Technologies, Inc.	13-Aug-18						
+L-143-13/0	Lindstrom, Stephen		Biotech Research Technologies, Inc.	13-Aug-18						
+L-143-13/0	Loftin, Lamorris		Biotech Research Technologies, Inc.	13-Aug-18						
+L-186-13/5	Chang, Gwong-Jen J.		Focus Diagnostics, Inc.	13-Aug-18						
+L-186-13/5	Roehrig, John T.		Focus Diagnostics, Inc.	13-Aug-18						
+L-112-14/3	CDC		Biological E	14-Aug-18						
+L-168-16/0	CDC		Mylan, Inc.	20-Aug-18						

+L-146-13/0	CDC		Biological E. Ltd.	21-Aug-18	(b) (3) (A), (b) (4), (b) (6)
+L-101-17/0	Devos, Joshua R.	(b)(4);	Life Technologies Corporation	21-Aug-18	
+L-101-17/0	Wagar, Nicholas	(b)(6)	Life Technologies Corporation	21-Aug-18	
+L-101-17/0	Yang, Chunfu (Dustin)		Life Technologies Corporation	21-Aug-18	
+L-101-17/0	Zhou, Zhiyong		Life Technologies Corporation	21-Aug-18	
+L-195-14/0	CDC		CTK Biotech, Inc.	22-Aug-18	
+L-134-14/1	Anderson, Larry J.	(b)(4);	Millipore Corporation	23-Aug-18	
+L-134-14/1	Hierholzer, John C.	(b)(6)	Millipore Corporation	23-Aug-18	
+L-134-14/1	Tsou, Cecelia		Millipore Corporation	23-Aug-18	
+L-126-16/0	CDC		Evolve Inc.	27-Aug-18	
+L-123-18/0	Roehrig, John T.	(b)(4);	InBios International	28-Aug-18	
		(b)(6)			
+L-226-18/0	Schriefer, Martin Eric		InBios	28-Aug-18	
+L-226-18/0	Sexton, Christopher		InBios	28-Aug-18	
+L-129-13/0	Reid, Thomas M.		Aerotech Laboratories, Inc.	30-Aug-18	
+L-129-13/0	Schafer, Millie P.		Aerotech Laboratories, Inc.	30-Aug-18	

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+L-252-13/2	Barclay, Leslie	(b)(4);	R-Biopharm AG	1-Sep-18				(b) (3) (A), (b) (4), (b) (6)	
+L-252-13/2	Chhabra, Preeti	(b)(6)	R-Biopharm AG	1-Sep-18					
+L-252-13/2	Gregoricus, Nicole		R-Biopharm AG	1-Sep-18					
+L-252-13/2	Vinje, Jan		R-Biopharm AG	1-Sep-18					
+L-240-15/1	CDC		LG Chem	4-Sep-18					
+L-180-13/3	Chang, Gwong-Jen J.	(b)(4);	InBios International, Inc.	4-Sep-18					
		(b)(6)							
+L-225-17/0	Chang, Gwong-Jen J.		InBios International, Inc.	4-Sep-18					
+L-225-17/0	Davis, Brent S.		InBios International, Inc.	4-Sep-18					
+L-225-17/0	Roehrig, John T.		InBios International, Inc.	4-Sep-18					
+L-225-17/0	Thibodeaux, Brett A.		InBios International, Inc.	4-Sep-18					
+L-186-13/5	Chang, Gwong-Jen J.		Focus Diagnostics, Inc.	10-Sep-18					
+L-186-13/5	Roehrig, John T.		Focus Diagnostics, Inc.	10-Sep-18					
+L-101-17/0	Devos, Joshua R.		Life Technologies Corporation	11-Sep-18					
+L-101-17/0	Wagar, Nicholas		Life Technologies Corporation	11-Sep-18					
+L-101-17/0	Yang, Chunfu (Dustin)		Life Technologies Corporation	11-Sep-18					
+L-101-17/0	Zhou, Zhiyong		Life Technologies Corporation	11-Sep-18					
+L-250-13/0	Gentsch, Jon R.		Yisheng Biopharma Holdings Ltd.	13-Sep-18					
+L-250-13/0	Glass, Roger I.		Yisheng Biopharma Holdings Ltd.	13-Sep-18					
+L-250-13/0	Jiang, Baoming		Yisheng Biopharma Holdings Ltd.	13-Sep-18					
+L-250-13/0	Saluzzo, Jean-francious		Yisheng Biopharma Holdings Ltd.	13-Sep-18					
+L-250-13/0	Wang, Yuhuan		Yisheng Biopharma Holdings Ltd.	13-Sep-18					

+ denotes a manual adjustment which has already been paid to the inventor

\$635,505.41	\$244,857.74	\$880,363.15	\$131,892.65	\$748,470.50
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NIH Patent Licensing Activities
CIT
April 2018

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+L-111-06/0	Malley, James	(b)(4)	ICAD Inc	26-Jun-18						(b) (3) (A), (b) (4), (b) (6)
+L-111-06/0	Wagner, Lynne M	(b)(6)	ICAD Inc	26-Jun-18						

Note: L-111-06/0 split between CC; CIT; NIDCD

NIH Patent Licensing Activities
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July 2018

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NIH Patent Licensing Activities
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License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-232-14/0	CIT		NanoString Technologies, Inc.	14-Aug-18						(b) (3) (A), (b) (4)

Note: L-232-14/0 split between CIT; NCI

NIH Patent Licensing Activities
CIT
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
										(b) (3) (A), (b) (4), (b) (6)

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 FDA
 April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-079-08/0	FDA		Theranstics Health	3-Apr-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-079-08/0 split between FDA; NCI</i>										
+L-347-14/0	Donnelly, Raymond P.	(b)(4);	Abcam, plc	19-Apr-18						
<i>Note: L-347-14/0 split between FDA; NCI</i>										

NIH Patent Licensing Activities
 FDA
 May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-080-06/3	FDA		Panacea Biotech Ltd.	4-May-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-080-06/3 split between FDA; NIAID</i>										
+L-217-16/0	Falgout, Barry	(b)(4);	Indian Immunologicals Ltd	7-May-18						
+L-217-16/0	Markoff, Lewis	(b)(6)	Indian Immunologicals Ltd	7-May-18						
<i>Note: L-217-16/0 split between FDA; NIAID</i>										
+L-001-15/2	Falgout, Barry		Merck Sharp & Dohme, Corp.	21-May-18						
+L-001-15/2	Markoff, Lewis		Merck Sharp & Dohme, Corp.	21-May-18						
<i>Note: L-001-15/2 split between FDA; NIAID</i>										

NIH Patent Licensing Activities
 FDA
 June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-114-09/0	Falgout, Barry	(b)(4);	Co for Vaccine and Bio Productin	12-Jun-18						(b) (3) (A), (b) (4), (b) (6)
+L-114-09/0	Markoff, Lewis	(b)(6)	Co for Vaccine and Bio Productin	12-Jun-18						
<i>Note: L-114-09/0 split between FDA; NIAID</i>										

NIH Patent Licensing Activities
 FDA
 July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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+L-347-14/0 Donnelly, Raymond P. (b)(4); (b) Abcam, plc
 Note: L-347-14/0 split between FDA; NCI

12-Jul-18

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

FDA

August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total August	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
+L-001-15/2	Falgout, Barry	(b)(4);	Merck Sharp & Dohme, Corp.	9-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-001-15/2	Markoff, Lewis	(b)(6)	Merck Sharp & Dohme, Corp.	9-Aug-18						

Note: L-001-15/2 split between FDA; NIAID

NIH Patent Licensing Activities

FDA

September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total September	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
+L-035-13/0	FDA		GlaxoSmithKline	5-Sep-18						(b) (3) (A), (b) (4)

Note: L-035-13/0 split between FDA; NIAID

\$71,586.24	\$0.00	\$71,586.24	\$16,793.92	\$54,792.32
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NCATS
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License	Inventor Awards April	Net Remaining to IC
								Cumulative Income		
+L-076-18/0	Inglese, James	(b)(4):	Lead Discovery Center	6-Apr-18						(b) (3) (A), (b) (4), (b) (6)
+L-076-18/0	Jang, Sung-Wook	(b)(6)	Lead Discovery Center	6-Apr-18						
+L-076-18/0	Svaren, John		Lead Discovery Center	6-Apr-18						
+L-076-18/0	Inglese, James		Lead Discovery Center	9-Apr-18						
+L-076-18/0	Jang, Sung-Wook		Lead Discovery Center	9-Apr-18						
+L-076-18/0	Svaren, John		Lead Discovery Center	9-Apr-18						

NIH Patent Licensing Activities
NCATS
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License	Inventor Awards May	Net Remaining to IC
								Cumulative Income		
+L-032-12/0	NCATS		Agios Pharmaceuticals Inc	30-May-18						(b) (3) (A), (b) (4)

Note: L-032-12/0 split between NCATS; NHGRI

NIH Patent Licensing Activities
NCATS
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License	Inventor Awards June	Net Remaining to IC
								Cumulative Income		

NIH Patent Licensing Activities
NCATS
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License	Inventor Awards July	Net Remaining to IC
								Cumulative Income		
+L-208-15/0	NCATS		Virotas Biopharmaceuticals, LLC	17-Jul-18						(b) (3) (A), (b) (4)

Note: L-208-15/0 split between NCATS; NIDDK

NIH Patent Licensing Activities
NCATS
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities

NCATS

September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-025-17/1	Morris, Patrick	(b)(4); (b)(6)	Tocris Bioscience	12-Sep-18						(b) (3) (A), (b) (4), (b) (6)
+L-025-17/1	Thomas, Craig J.	(b)(6)	Tocris Bioscience	12-Sep-18						

Note: L-025-17/1 split between NCATS; NIA; NIMH

					\$6,549.97	\$2,791.36	\$9,341.33		\$2,717.58	\$6,623.75
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 NCI
 April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-066-09/0	Chang, Nancy T.	(b)(4);	Becton Dickinson	1-Apr-18						(b) (3) (A), (b) (4), (b) (6)
+L-066-09/0	Fisher, Amanda G.	(b)(6)	Becton Dickinson	1-Apr-18						
+L-066-09/0	Franchini, Genoveffa		Becton Dickinson	1-Apr-18						
+L-066-09/0	Gartner, Suzanne		Becton Dickinson	1-Apr-18						
+L-066-09/0	Hahn, Beatrice		Becton Dickinson	1-Apr-18						
+L-066-09/0	(b) (4)		Becton Dickinson	1-Apr-18						
+L-066-09/0	Lori, Franco C.		Becton Dickinson	1-Apr-18						
+L-066-09/0	Markham, Phillip D.		Becton Dickinson	1-Apr-18						
+L-066-09/0	Reitz, Jr., Marvin S.		Becton Dickinson	1-Apr-18						
+L-066-09/0	Sarnagadharan, Mangalasseril		Becton Dickinson	1-Apr-18						
+L-122-16/1	NCI		Angio360 Diagnostics	2-Apr-18						
+L-226-15/2	Hodge, James W.	(b)(4);	KeraFAST	2-Apr-18						
+L-226-15/2	Schlom, Jeffrey	(b)(6)	KeraFAST	2-Apr-18						
+L-226-15/2	Hodge, James W.		KeraFAST	2-Apr-18						
+L-226-15/2	Schlom, Jeffrey		KeraFAST	2-Apr-18						
+L-188-16/0	NCI		Heliome Biotech	3-Apr-18						
+L-064-11/0	Barry, Todd	(b)(4);	Eptiomics Inc	3-Apr-18						
+L-064-11/0	Rosenwald, Andreas	(b)(6)	Eptiomics Inc	3-Apr-18						
+L-064-11/0	Staudt, Louis M		Eptiomics Inc	3-Apr-18						
+L-064-11/0	Wiestner, Adrian		Eptiomics Inc	3-Apr-18						
+L-064-11/0	Wilson, Wyndham H.		Eptiomics Inc	3-Apr-18						
+L-085-18/0	Bonomi, Carrie A.		Pulse Biosciences	3-Apr-18						
+L-085-18/0	Dougherty, Kelly		Pulse Biosciences	3-Apr-18						
+L-085-18/0	Hollingshead, Melinda G.		Pulse Biosciences	3-Apr-18						
+L-079-08/0	NCI		Theranstics Health	3-Apr-18						
<i>Note: L-079-08/0 split between FDA; NCI</i>										
+L-080-93/2	Hathcock, Karen	(b)(4);	BD Biosciences - BD PharMingen, Inc.	3-Apr-18						
+L-080-93/2	Hodes, Richard	(b)(6)	BD Biosciences - BD PharMingen, Inc.	3-Apr-18						
+L-080-93/2	Laszlo, Gloria		BD Biosciences - BD PharMingen, Inc.	3-Apr-18						
+L-187-95/2	Yoshimura, Teizo		BD BIOSCIENCES	3-Apr-18						
+L-050-05/0	Aaronson, Stuart A.		Research & Diagnostic Systems Inc	4-Apr-18						
+L-050-05/0	Finch, Paul W.		Research & Diagnostic Systems Inc	4-Apr-18						
+L-050-05/0	He, Xi		Research & Diagnostic Systems Inc	4-Apr-18						
+L-050-05/0	Rubin, Jeffrey S		Research & Diagnostic Systems Inc	4-Apr-18						
+L-091-09/0	Bonner, William M		Research & Diagnostic Systems, Inc.	4-Apr-18						
+L-091-09/0	Rogakou, Efthimia P		Research & Diagnostic Systems, Inc.	4-Apr-18						
+L-211-17/0	Kahn, Richard A		Emory University	4-Apr-18						
+L-023-09/1	Waugh, David		Takeda Pharmaceutical	5-Apr-18						

+L-049-91/5	Aaronson, Stuart A.	(b)(4);	Biovitium AB (publ)	5-Apr-18
+L-049-91/5	Finch, Paul W.	(b)(6)	Biovitium AB (publ)	5-Apr-18
+L-049-91/5	Rubin, Jeffrey S		Biovitium AB (publ)	5-Apr-18
+L-093-18/0	Chung, Joon-Yong		MedImmune	6-Apr-18
+L-093-18/0	Hewitt, Stephen		MedImmune	6-Apr-18
+L-093-18/0	Perry, Candice		MedImmune	6-Apr-18
<i>Note: L-093-18/0 split between NCI; NIDDK</i>				
+L-119-17/0	Esposito, Dominic		Boehringer Ingelheim International GmbH	9-Apr-18
+L-119-17/0	Gillette, William K.		Boehringer Ingelheim International GmbH	9-Apr-18
+L-119-17/0	Grose, Carissa L.		Boehringer Ingelheim International GmbH	9-Apr-18
+L-119-17/0	Stephens, Robert M.		Boehringer Ingelheim International GmbH	9-Apr-18
+L-266-00/0	Aaronson, Stuart A.		PeproTech, Inc.	9-Apr-18
+L-266-00/0	Finch, Paul W.		PeproTech, Inc.	9-Apr-18
+L-266-00/0	Rubin, Jeffrey S		PeproTech, Inc.	9-Apr-18
+L-022-06/3	Gottesman, Michael M.		Abbott Laboratories	10-Apr-18
+L-022-06/3	Pastan, Ira H		Abbott Laboratories	10-Apr-18
+L-022-06/3	Ueda, Kazumitsu		Abbott Laboratories	10-Apr-18
+L-271-16/0	Abrams, Scott I		Peregrine Pharmaceuticals, Inc.	11-Apr-18
+L-271-16/0	Schlom, Jeffrey		Peregrine Pharmaceuticals, Inc.	11-Apr-18
+L-126-10/0	Bonner, William M		Enzo Life Sciences, Inc.	11-Apr-18
+L-126-10/0	Rogakou, Efthimia P		Enzo Life Sciences, Inc.	11-Apr-18
+L-058-18/0	Anderson, Lucy M.		TarMeta Biosciences	11-Apr-18
+L-058-18/0	Chakrapani, Harinath		TarMeta Biosciences	11-Apr-18
+L-058-18/0	Ji, Xinhua		TarMeta Biosciences	11-Apr-18
+L-058-18/0	Keefer, Larry K		TarMeta Biosciences	11-Apr-18
+L-058-18/0	Kumari, Vandana		TarMeta Biosciences	11-Apr-18
+L-058-18/0	Maciag, Anna Elzbieta		TarMeta Biosciences	11-Apr-18
+L-058-18/0	Saavedra, Joseph E		TarMeta Biosciences	11-Apr-18
+L-009-18/0	Copeland, Neal		Spybiotech Limited	16-Apr-18
+L-009-18/0	Costantino, Nina		Spybiotech Limited	16-Apr-18
+L-009-18/0	Court, Donald		Spybiotech Limited	16-Apr-18
+L-009-18/0	Ellis, Hilary Moyed		Spybiotech Limited	16-Apr-18
+L-009-18/0	Jenkins Copeland, Nancy A		Spybiotech Limited	16-Apr-18
+L-009-18/0	Lee, E-Chiang		Spybiotech Limited	16-Apr-18
+L-009-18/0	Sharan, Shyam K.		Spybiotech Limited	16-Apr-18
+L-009-18/0	Swaminathan, Srividya		Spybiotech Limited	16-Apr-18
+L-009-18/0	Warming, Soren		Spybiotech Limited	16-Apr-18
+L-009-18/0	Yu, Daiguan		Spybiotech Limited	16-Apr-18
+L-106-18/0	Bonomi, Carrie A.		KSQ Therapeutics	17-Apr-18
+L-106-18/0	Dougherty, Kelly		KSQ Therapeutics	17-Apr-18
+L-106-18/0	Hollingshead, Melinda G.		KSQ Therapeutics	17-Apr-18
+L-121-18/0	Bonomi, Carrie A.		Immutics	19-Apr-18
+L-121-18/0	Borgel, Suzanne D.		Immutics	19-Apr-18
+L-121-18/0	Dougherty, Kelly		Immutics	19-Apr-18
+L-121-18/0	Hollingshead, Melinda G.		Immutics	19-Apr-18
+L-135-10/0	Barry, Todd		Genzyme Corporation	19-Apr-18
+L-135-10/0	Rosenwald, Andreas		Genzyme Corporation	19-Apr-18
+L-135-10/0	Staudt, Louis M		Genzyme Corporation	19-Apr-18

(b) (3) (A), (b) (4), (b) (6)

+L-135-10/0	Wiestner, Adrian	(b)(4);	Genzyme Corporation	19-Apr-18	(b) (3) (A), (b) (4), (b) (6)	
+L-135-10/0	Wilson, Wyndham H.	(b)(6)	Genzyme Corporation	19-Apr-18		
+L-347-14/0	Muchmore, Brian P.		Abcam, plc	19-Apr-18		
+L-347-14/0	O'Brien, Thomas R		Abcam, plc	19-Apr-18		
+L-347-14/0	Porter-Gill, Patricia A.		Abcam, plc	19-Apr-18		
+L-347-14/0	Prokunina-Olsson, Ludmila		Abcam, plc	19-Apr-18		
<i>Note: L-347-14/0 split between FDA; NCI</i>						
+L-064-11/0	Barry, Todd		Eptiomics Inc	20-Apr-18		
+L-064-11/0	Rosenwald, Andreas		Eptiomics Inc	20-Apr-18		
+L-064-11/0	Staudt, Louis M		Eptiomics Inc	20-Apr-18		
+L-064-11/0	Wiestner, Adrian		Eptiomics Inc	20-Apr-18		
+L-064-11/0	Wilson, Wyndham H.		Eptiomics Inc	20-Apr-18		
+L-117-18/0	Bonomi, Carrie A.		Morphic Therapeutic	23-Apr-18		
+L-117-18/0	Borgel, Suzanne D.		Morphic Therapeutic	23-Apr-18		
+L-117-18/0	Dougherty, Kelly		Morphic Therapeutic	23-Apr-18		
+L-117-18/0	Hollingshead, Melinda G.		Morphic Therapeutic	23-Apr-18		
+L-117-18/0	Bonomi, Carrie A.		Morphic Therapeutic	23-Apr-18		
+L-117-18/0	Borgel, Suzanne D.		Morphic Therapeutic	23-Apr-18		
+L-117-18/0	Dougherty, Kelly		Morphic Therapeutic	23-Apr-18		
+L-117-18/0	Hollingshead, Melinda G.		Morphic Therapeutic	23-Apr-18		
+L-310-17/1	NCI		3D Medicines	23-Apr-18		
+L-310-17/1	Miller, Valerie	(b)(4);	3D Medicines	23-Apr-18		
+L-310-17/1	Wang, Xin Wei	(b)(6)	3D Medicines	23-Apr-18		
+L-082-18/0	Bonomi, Carrie A.		ADC Therapeutics	23-Apr-18		
+L-082-18/0	Borgel, Suzanne D.		ADC Therapeutics	23-Apr-18		
+L-082-18/0	Dougherty, Kelly		ADC Therapeutics	23-Apr-18		
+L-082-18/0	Hollingshead, Melinda G.		ADC Therapeutics	23-Apr-18		
+L-271-01/7	NCI		Millennium Pharmaceuticals, Inc.	24-Apr-18		

NIH Patent Licensing Activities
NCI
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-224-15/0	Kochenderfer, James N	(b)(4);	Bluebird Bio	1-May-18						(b) (3) (A), (b) (4), (b) (6)
+L-107-13/1	NCI		OPUS BIO INC	4-May-18						
+L-106-13/1	NCI		Opus Bio, Inc.	4-May-18						
+L-106-13/1	Dimitrov, Dimiter S.	(b)(4);	Opus Bio, Inc.	4-May-18						
+L-106-13/1	Mackall, Crystal L	(b)(6)	Opus Bio, Inc.	4-May-18						
+L-106-13/1	Orentas, Rimas J.		Opus Bio, Inc.	4-May-18						
+L-106-13/1	Pastan, Ira H		Opus Bio, Inc.	4-May-18						
+L-106-13/1	Xiao, Xiaodong		Opus Bio, Inc.	4-May-18						
+L-106-13/1	NCI		Opus Bio, Inc.	4-May-18						

+L-165-99/1	Crowl, Robert	(b)(4);	Trinity Biotech	7-May-18
+L-165-99/1	(b) (4)	(b)(6)	Trinity Biotech	7-May-18
+L-165-99/1	Reddy, E. Premkumar.		Trinity Biotech	7-May-18
+L-165-99/1	Sarngadharan, Mangalasseril		Trinity Biotech	7-May-18
+L-162-14/0	Gottesman, Michael M.		Pfizer	8-May-18
+L-162-14/0	Pastan, Ira H		Pfizer	8-May-18
+L-162-14/0	Ueda, Kazumitsu		Pfizer	8-May-18
+L-039-11/0	Onda, Masanori		Rockland Immunochemicals, Inc.	8-May-18
+L-039-11/0	Pastan, Ira H		Rockland Immunochemicals, Inc.	8-May-18
+L-189-16/0	Roden, Richard B		HIPRA Scientific	9-May-18
+L-054-05/0	NCI		Medarex Inc	11-May-18
+L-019-11/1	Dudley, Mark		MedImmune, Inc.	11-May-18
+L-019-11/1	Morgan, Richard A.		MedImmune, Inc.	11-May-18
+L-019-11/1	Robbins, Paul F		MedImmune, Inc.	11-May-18
+L-019-11/1	Rosenberg, Steven A.		MedImmune, Inc.	11-May-18
+L-094-16/0	NCI		Immunova Therapeutics	11-May-18
+L-061-14/0	Hwu, Patrick	(b)(4);	Cabaret Biotech Ltd.	14-May-18
+L-061-14/0	Rosenberg, Steven A.	(b)(6)	Cabaret Biotech Ltd.	14-May-18
+L-146-97/0	Allikmets, Rando		Baylor College of Medicine	15-May-18
+L-146-97/0	Dean, Michael C		Baylor College of Medicine	15-May-18
+L-279-17/0	Bonomi, Carrie A.		OncodesignBiotechnology	15-May-18
+L-279-17/0	Borgel, Suzanne D.		OncodesignBiotechnology	15-May-18
+L-279-17/0	Dougherty, Kelly		OncodesignBiotechnology	15-May-18
+L-279-17/0	Hollingshead, Melinda G.		OncodesignBiotechnology	15-May-18
+L-022-17/0	NCI		Etubics Corporation	17-May-18
+L-245-94/1	(b) (4)	(b)(4);	Boston Biomedics	21-May-18
+L-245-94/1	Sarngadharan, Mangalasseril	(b)(6)	Boston Biomedics	21-May-18
<i>Note: L-245-94/1 split between NCI; NIAID</i>				
+L-161-04/1	(b) (4)		SeraCare Life Sciences, Inc.	21-May-18
+L-161-04/1	Sarngadharan, Mangalasseril		SeraCare Life Sciences, Inc.	21-May-18
+L-049-91/5	Aaronson, Stuart A.		Biovitium AB (publ)	23-May-18
+L-049-91/5	Finch, Paul W.		Biovitium AB (publ)	23-May-18
+L-049-91/5	Rubin, Jeffrey S		Biovitium AB (publ)	23-May-18
+L-073-03/3	Gottesman, Michael M.		Genentech	23-May-18
+L-073-03/3	Ueda, Kazumitsu		Genentech	23-May-18
+L-228-01/0	NCI		Cytos Biotechnology, Inc.	23-May-18
+L-128-18/0	Bonomi, Carrie A.	(b)(4);	Xencor	25-May-18
+L-128-18/0	Borgel, Suzanne D.	(b)(6)	Xencor	25-May-18
+L-128-18/0	Dougherty, Kelly		Xencor	25-May-18
+L-128-18/0	Hollingshead, Melinda G.		Xencor	25-May-18
+L-128-15/1	NCI		Advanced Personalized Diagnostics	25-May-18

(b) (3) (A), (b) (4), (b) (6)

+L-128-15/1	NCI		Advanced Personalized Diagnostics	25-May-18	(b) (3) (A), (b) (4), (b) (6)
+L-068-01/1	Gottesman, Michael M.	(b)(4);	Boehringer	29-May-18	
+L-068-01/1	Pastan, Ira H	(b)(6)	Boehringer	29-May-18	
+L-068-01/1	Ueda, Kazumitsu		Boehringer	29-May-18	
+L-117-09/2	Aaronson, Stuart A.		Targovax	29-May-18	
+L-117-09/2	(b) (6) Donald J. Giard		Targovax	29-May-18	
+L-117-09/2	Parks, Wade P		Targovax	29-May-18	
+L-149-18/0	Esposito, Dominic		Merck Sharp & Dohme	30-May-18	
+L-149-18/0	Gillette, William K.		Merck Sharp & Dohme	30-May-18	
+L-149-18/0	Grose, Carissa L.		Merck Sharp & Dohme	30-May-18	
+L-045-97/0	Rosenberg, Steven A.		Johns Hopkins University	30-May-18	
+L-045-97/0	Topalian, Suzanne L.		Johns Hopkins University	30-May-18	
+L-197-94/3	Cheng, Sheue-Yann		Santa Cruz Biotechnology, Inc.	30-May-18	
+L-138-05/2	Chang, Kai		Santa Cruz Biotechnology Inc	30-May-18	
+L-138-05/2	Willingham, Mark C.		Santa Cruz Biotechnology Inc	30-May-18	
+L-173-05/2	Allegra, Carmen		Santa Cruz Biotechnology, Inc.	30-May-18	
+L-173-05/2	Chabner, Bruce A		Santa Cruz Biotechnology, Inc.	30-May-18	
+L-173-05/2	Johnston, Patrick G.		Santa Cruz Biotechnology, Inc.	30-May-18	
+L-173-05/2	Liang, Chi-Ming		Santa Cruz Biotechnology, Inc.	30-May-18	
+L-113-06/1	Kawakami, Yutaka		Santa Cruz Biotechnology Inc	30-May-18	
+L-113-06/1	Rosenberg, Steven A.		Santa Cruz Biotechnology Inc	30-May-18	
+L-031-07/1	Aaronson, Stuart A.		Santa Cruz Biotechnology	30-May-18	
+L-031-07/1	Lacal, Juan C.		Santa Cruz Biotechnology	30-May-18	
+L-190-07/1	Cheng, Sheue-Yann		Santa Cruz	30-May-18	
+L-004-08/0	Li, Chou Chi		Santa Cruz Biotechnology Inc	30-May-18	
+L-039-08/1	Hathcock, Karen		Santa Cruz Biotechnology Inc	30-May-18	
+L-039-08/1	Hodes, Richard		Santa Cruz Biotechnology Inc	30-May-18	
+L-039-08/1	Laszlo, Gloria		Santa Cruz Biotechnology Inc	30-May-18	
+L-050-05/0	Aaronson, Stuart A.		Research & Diagnostic Systems Inc	30-May-18	
+L-050-05/0	Finch, Paul W.		Research & Diagnostic Systems Inc	30-May-18	
+L-050-05/0	He, Xi		Research & Diagnostic Systems Inc	30-May-18	
+L-050-05/0	Rubin, Jeffrey S		Research & Diagnostic Systems Inc	30-May-18	

NIH Patent Licensing Activities

NCI

June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-083-11/0	Waldmann, Thomas A.	(b)(4);	Abbott Biotherapeutics Corp.	1-Jun-18						(b) (3) (A), (b) (4), (b) (6)
Note: L-083-11/0 split between NCI; NINDS										
+L-130-18/0	Felber, Barbara K.	(b)(6)	FiberCell	1-Jun-18						
+L-130-18/0	Pavlikis, George N		FiberCell	1-Jun-18						

+L-159-18/0	Bonomi, Carrie A.	(b)(4);	Bicycle	1-Jun-18
+L-159-18/0	Borgel, Suzanne D.	(b)(6)	Bicycle	1-Jun-18
+L-159-18/0	Dougherty, Kelly		Bicycle	1-Jun-18
+L-159-18/0	Hollingshead, Melinda G.		Bicycle	1-Jun-18
+L-154-97/2	Mason, Llewellyn H.		PharMingen, Inc.	5-Jun-18
+L-154-97/2	Ortaldo, John R.		PharMingen, Inc.	5-Jun-18
+L-097-00/2	Austin, Faye C.		BD Biosciences, PharMingen	5-Jun-18
+L-097-00/2	Colcher, David		BD Biosciences, PharMingen	5-Jun-18
+L-097-00/2	Hand, Patricia H		BD Biosciences, PharMingen	5-Jun-18
+L-097-00/2	Nuti, Marianna		BD Biosciences, PharMingen	5-Jun-18
+L-097-00/2	Schlom, Jeffrey		BD Biosciences, PharMingen	5-Jun-18
+L-105-18/0	Bonomi, Carrie A.		Chugai	5-Jun-18
+L-105-18/0	Borgel, Suzanne D.		Chugai	5-Jun-18
+L-105-18/0	Dougherty, Kelly		Chugai	5-Jun-18
+L-105-18/0	Hollingshead, Melinda G.		Chugai	5-Jun-18
+L-169-18/0	Gao, Wei		RadioMedix	5-Jun-18
+L-169-18/0	Ho, Mitchell		RadioMedix	5-Jun-18
+L-169-18/0	Phung, Yen T.		RadioMedix	5-Jun-18
+L-169-18/0	Zhang, Yifan		RadioMedix	5-Jun-18
+L-161-18/0	Gazdar, Adi F.		ImmunoActiva	5-Jun-18
+L-161-18/0	Johnson, Bruce E		ImmunoActiva	5-Jun-18
+L-161-18/0	Kaye, Frederic J		ImmunoActiva	5-Jun-18
+L-161-18/0	Kheif, Samir N.		ImmunoActiva	5-Jun-18
+L-161-18/0	Minna, John D.		ImmunoActiva	5-Jun-18
+L-161-18/0	Oie, Herbert K		ImmunoActiva	5-Jun-18
+L-161-18/0	Pass, Harvey I.		ImmunoActiva	5-Jun-18
+L-102-14/1	Copeland, Neal		Enevolv Inc	6-Jun-18
+L-102-14/1	Costantino, Nina		Enevolv Inc	6-Jun-18
+L-102-14/1	Court, Donald		Enevolv Inc	6-Jun-18
+L-102-14/1	Ellis, Hilary Moyed		Enevolv Inc	6-Jun-18
+L-102-14/1	Jenkins Copeland, Nancy A		Enevolv Inc	6-Jun-18
+L-102-14/1	Lee, E-Chiang		Enevolv Inc	6-Jun-18
+L-102-14/1	Liu, Pentao		Enevolv Inc	6-Jun-18
+L-102-14/1	Sharan, Shyam K		Enevolv Inc	6-Jun-18
+L-102-14/1	Swaminathan, Srividya		Enevolv Inc	6-Jun-18
+L-102-14/1	Warming, Soren		Enevolv Inc	6-Jun-18
+L-102-14/1	Yu, Daiguan		Enevolv Inc	6-Jun-18
+L-254-17/0	Bonomi, Carrie A.		Neon Therapeutics	7-Jun-18
+L-254-17/0	Borgel, Suzanne D.		Neon Therapeutics	7-Jun-18
+L-254-17/0	Dougherty, Kelly		Neon Therapeutics	7-Jun-18
+L-254-17/0	Hollingshead, Melinda G.		Neon Therapeutics	7-Jun-18
+L-089-18/0	Franchini, Genoveffa		MolMed SPA	7-Jun-18
+L-089-18/0	Kalyanaraman, Vaniambadi S.		MolMed SPA	7-Jun-18
+L-089-18/0	Markham, Phillip D.		MolMed SPA	7-Jun-18
+L-089-18/0	Salahuddin, Syed Z.		MolMed SPA	7-Jun-18
+L-107-18/0	Bonomi, Carrie A.		Codiak Biosciences	7-Jun-18
+L-107-18/0	Dougherty, Kelly		Codiak Biosciences	7-Jun-18
+L-107-18/0	Hollingshead, Melinda G.		Codiak Biosciences	7-Jun-18

(b) (3) (A), (b) (4), (b) (6)

+L-100-18/0	Bonomi, Carrie A.	(b)(4);	Codiak Biosciences	7-Jun-18
+L-100-18/0	Borgel, Suzanne D.	(b)(6)	Codiak Biosciences	7-Jun-18
+L-100-18/0	Dougherty, Kelly		Codiak Biosciences	7-Jun-18
+L-100-18/0	Hollingshead, Melinda G.		Codiak Biosciences	7-Jun-18
+L-074-10/0	Copeland, Neal		Codexis Inc	8-Jun-18
+L-074-10/0	Costantino, Nina		Codexis Inc	8-Jun-18
+L-074-10/0	Court, Donald		Codexis Inc	8-Jun-18
+L-074-10/0	Datta, Simanti		Codexis Inc	8-Jun-18
+L-074-10/0	Ellis, Hilary Moyed		Codexis Inc	8-Jun-18
+L-074-10/0	Jenkins Copeland, Nancy A		Codexis Inc	8-Jun-18
+L-074-10/0	Lee, E-Chiang		Codexis Inc	8-Jun-18
+L-074-10/0	Liu, Pentao		Codexis Inc	8-Jun-18
+L-074-10/0	Sawitzke, James		Codexis Inc	8-Jun-18
+L-074-10/0	Sharan, Shyam K		Codexis Inc	8-Jun-18
+L-074-10/0	Swaminathan, Srividya		Codexis Inc	8-Jun-18
+L-074-10/0	Yu, Daiguan		Codexis Inc	8-Jun-18
+L-039-11/0	Onda, Masanori		Rockland Immunochemicals, Inc.	12-Jun-18
+L-045-04/1	Guedez, Liliana		Trevigen, Inc.	13-Jun-18
+L-045-04/1	Stetler-Stevenson, William G.		Trevigen, Inc.	13-Jun-18
<i>Note: L-045-04/1 split between NCI; NIBIB</i>				
+L-151-18/0	Nani, Roger R.		Activ Surgical	13-Jun-18
+L-151-18/0	Schnermann, Martin		Activ Surgical	13-Jun-18
+L-158-18/0	(b) (4)		Merck Sharp & Dohme	14-Jun-18
+L-158-18/0	Esposito, Dominic		Merck Sharp & Dohme	14-Jun-18
+L-158-18/0	Hopkins, Ralph F.		Merck Sharp & Dohme	14-Jun-18
+L-158-18/0	Roberts, Veronica Ann		Merck Sharp & Dohme	14-Jun-18
+L-245-94/1	(b) (4)		Boston Biomedics	14-Jun-18
+L-245-94/1	Sarnghadharan, Mangalasseril		Boston Biomedics	14-Jun-18
<i>Note: L-245-94/1 split between NCI; NIAID</i>				
+L-161-04/1	(b) (4)		SeraCare Life Sciences, Inc.	14-Jun-18
+L-161-04/1	Sarnghadharan, Mangalasseril		SeraCare Life Sciences, Inc.	14-Jun-18
+L-175-07/1	Baba, Masaya		Immuquest Ltd	18-Jun-18
+L-175-07/1	Nickerson, Michael L.		Immuquest Ltd	18-Jun-18
+L-175-07/1	Schmidt, Laura S.		Immuquest Ltd	18-Jun-18
+L-175-07/1	Sharma, Nirmala D		Immuquest Ltd	18-Jun-18
+L-175-07/1	Warren, Michelle B.		Immuquest Ltd	18-Jun-18
+L-175-07/1	Zbar, Berton		Immuquest Ltd	18-Jun-18
+L-039-18/0	Gazdar, Adi F.		Eurofins Cerep	19-Jun-18
+L-039-18/0	Johnson, Bruce E		Eurofins Cerep	19-Jun-18
+L-039-18/0	Kaye, Frederic J		Eurofins Cerep	19-Jun-18
+L-039-18/0	Kheif, Samir N.		Eurofins Cerep	19-Jun-18
+L-039-18/0	Minna, John D.		Eurofins Cerep	19-Jun-18
+L-039-18/0	Oie, Herbert K		Eurofins Cerep	19-Jun-18
+L-039-18/0	Pass, Harvey I.		Eurofins Cerep	19-Jun-18
+L-024-18/0	Gazdar, Adi F.		SeraCare Life	19-Jun-18
+L-024-18/0	Johnson, Bruce E		SeraCare Life	19-Jun-18
+L-024-18/0	Kaye, Frederic J		SeraCare Life	19-Jun-18
+L-024-18/0	Kheif, Samir N.		SeraCare Life	19-Jun-18
+L-024-18/0	Minna, John D.		SeraCare Life	19-Jun-18

(b) (3) (A), (b) (4), (b) (6)

+L-024-18/0	Oie, Herbert K	(b)(4);	SeraCare Life	19-Jun-18	(b) (3) (A), (b) (4), (b) (6)
+L-024-18/0	Pass, Harvey I.	(b)(6)	SeraCare Life	19-Jun-18	
+L-155-17/2	Zhu, Zhongyu		BSV Biosciences	19-Jun-18	
+L-142-18/0	Gottesman, Michael M.		Takeda California	19-Jun-18	
+L-142-18/0	Ueda, Kazumitsu		Takeda California	19-Jun-18	
+L-142-18/0	Gottesman, Michael M.		Takeda California	19-Jun-18	
+L-142-18/0	Ueda, Kazumitsu		Takeda California	19-Jun-18	
+L-115-95/2	NCI		MedImmune, Inc.	20-Jun-18	
+L-063-16/1	Gazdar, Adi F.		GlaxoSmithKline	20-Jun-18	
+L-063-16/1	Johnson, Bruce E		GlaxoSmithKline	20-Jun-18	
+L-063-16/1	Kaye, Frederic J		GlaxoSmithKline	20-Jun-18	
+L-063-16/1	Kheif, Samir N.		GlaxoSmithKline	20-Jun-18	
+L-063-16/1	Minna, John D.		GlaxoSmithKline	20-Jun-18	
+L-063-16/1	Oie, Herbert K		GlaxoSmithKline	20-Jun-18	
+L-063-16/1	Pass, Harvey I.		GlaxoSmithKline	20-Jun-18	
+L-061-18/0	NCI		Johns Hopkins	20-Jun-18	
+L-092-12/2	NCI		Admune Therapeutics LLC	22-Jun-18	
+L-103-09/1	Yamashita, Motozo	(b)(4);	Novartis	22-Jun-18	
+L-103-09/1	Zhang, Ying E.	(b)(6)	Novartis	22-Jun-18	
+L-083-18/1	Bonomi, Carrie A.		Evotec SAS	22-Jun-18	
+L-083-18/1	Borgel, Suzanne D.		Evotec SAS	22-Jun-18	
+L-083-18/1	Dougherty, Kelly		Evotec SAS	22-Jun-18	
+L-083-18/1	Hollingshead, Melinda G.		Evotec SAS	22-Jun-18	
+L-189-18/0	Bonomi, Carrie A.		Immutics	25-Jun-18	
+L-189-18/0	Dougherty, Kelly		Immutics	25-Jun-18	
+L-189-18/0	Hollingshead, Melinda G.		Immutics	25-Jun-18	
+L-152-18/0	Bonomi, Carrie A.		Cygnal Therapeutics	26-Jun-18	
+L-152-18/0	Dougherty, Kelly		Cygnal Therapeutics	26-Jun-18	
+L-152-18/0	Hollingshead, Melinda G.		Cygnal Therapeutics	26-Jun-18	
+L-092-12/2	NCI		Admune Therapeutics LLC	26-Jun-18	
+L-191-18/0	Bonomi, Carrie A.	(b)(4);	Palleon Pharmaceuticals	28-Jun-18	
+L-191-18/0	Borgel, Suzanne D.	(b)(6)	Palleon Pharmaceuticals	28-Jun-18	
+L-191-18/0	Dougherty, Kelly		Palleon Pharmaceuticals	28-Jun-18	
+L-191-18/0	Hollingshead, Melinda G.		Palleon Pharmaceuticals	28-Jun-18	

NIH Patent Licensing Activities
NCI
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	License			Inventor Awards July	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income		
+L-147-18/0	Bonomi, Carrie A.	(b)(4);	Genentech	1-Jul-18				(b) (3) (A), (b) (4), (b) (6)	
+L-147-18/0	Borgel, Suzanne D.	(b)(6)	Genentech	1-Jul-18					
+L-147-18/0	Dougherty, Kelly		Genentech	1-Jul-18					

+L-147-18/0	Hollingshead, Melinda G.	(b)(4); (b)(6)	Genentech	1-Jul-18	(b) (3) (A), (b) (4), (b) (6)	
+L-310-17/2	Miller, Valerie		3D Medicines	1-Jul-18		
+L-310-17/2	Wang, Xin Wei		3D Medicines	1-Jul-18		
+L-083-18/1	Bonomi, Carrie A.		Evotec SAS	1-Jul-18		
+L-083-18/1	Borgel, Suzanne D.		Evotec SAS	1-Jul-18		
+L-083-18/1	Dougherty, Kelly		Evotec SAS	1-Jul-18		
+L-083-18/1	Hollingshead, Melinda G.		Evotec SAS	1-Jul-18		
+L-192-18/0	Bonomi, Carrie A.		iOmx	1-Jul-18		
+L-192-18/0	Borgel, Suzanne D.		iOmx	1-Jul-18		
+L-192-18/0	Dougherty, Kelly		iOmx	1-Jul-18		
+L-192-18/0	Hollingshead, Melinda G.		iOmx	1-Jul-18		
+L-314-14/1	NCI		Bikanta Corporation	1-Jul-18		
<i>Note: L-314-14/1 split between NCI; NHLBI</i>						
+L-220-01/0	(b) (4)	(b)(4); (b)(6)	Tibotec Pharm Ltd.	1-Jul-18		
+L-224-17/0	Costantino, Nina		Delve Therapeutics	2-Jul-18		
+L-224-17/0	Court, Donald		Delve Therapeutics	2-Jul-18		
+L-224-17/0	Datta, Simanti		Delve Therapeutics	2-Jul-18		
+L-183-18/0	Bagni- Beyer, Rachel K.		Merck Sharp & Dohme	3-Jul-18		
+L-183-18/0	(b) (4)		Merck Sharp & Dohme	3-Jul-18		
+L-183-18/0	Holderfield, Matthew T.		Merck Sharp & Dohme	3-Jul-18		
+L-183-18/0	Soppet, Dan		Merck Sharp & Dohme	3-Jul-18		
+L-147-10/1	Green, Jeffrey E		Pfizer	3-Jul-18		
+L-129-18/0	Bonomi, Carrie A.		IGM Bioscience	3-Jul-18		
+L-129-18/0	Borgel, Suzanne D.		IGM Bioscience	3-Jul-18		
+L-129-18/0	Dougherty, Kelly		IGM Bioscience	3-Jul-18		
+L-129-18/0	Hollingshead, Melinda G.		IGM Bioscience	3-Jul-18		
+L-080-93/2	Hathcock, Karen		BD Biosciences - BD PharMingen, Inc.	5-Jul-18		
+L-080-93/2	Hodes, Richard		BD Biosciences - BD PharMingen, Inc.	5-Jul-18		
+L-080-93/2	Laszlo, Gloria		BD Biosciences - BD PharMingen, Inc.	5-Jul-18		
+L-049-91/5	NCI		Biovitium AB (publ)	5-Jul-18		
+L-271-01/7	NCI		Millennium Pharmaceuticals, Inc.	11-Jul-18		
+L-221-17/0	Cao, Boliang (Brian)	(b)(4);	Cymeta Biopharmaceutical	11-Jul-18		
+L-221-17/0	Vande Woude, George	(b)(6)	Cymeta Biopharmaceutical	11-Jul-18		
+L-347-14/0	Muchmore, Brian P.		Abcam, plc	12-Jul-18		
+L-347-14/0	O'Brien, Thomas R		Abcam, plc	12-Jul-18		
+L-347-14/0	Porter-Gill, Patricia A.		Abcam, plc	12-Jul-18		
+L-347-14/0	Prokunina-Olsson, Ludmila		Abcam, plc	12-Jul-18		
<i>Note: L-347-14/0 split between FDA; NCI</i>						
+L-064-11/0	Barry, Todd		Eptiomics Inc	12-Jul-18		
+L-064-11/0	Rosenwald, Andreas		Eptiomics Inc	12-Jul-18		
+L-064-11/0	Staudt, Louis M		Eptiomics Inc	12-Jul-18		
+L-064-11/0	Wiestner, Adrian		Eptiomics Inc	12-Jul-18		
+L-064-11/0	Wilson, Wyndham H.		Eptiomics Inc	12-Jul-18		

+L-086-08/2	NCI		PAXVAX INC	12-Jul-18
+L-249-17/1	Esposito, Dominic	(b)(4);	Vernalis	16-Jul-18
+L-249-17/1	Gillette, William K.	(b)(6)	Vernalis	16-Jul-18
+L-249-17/1	Grose, Carissa L.		Vernalis	16-Jul-18
+L-249-17/1	Stephens, Robert M.		Vernalis	16-Jul-18
+L-248-17/1	(b) (4)		Vernalis	16-Jul-18
+L-248-17/1	Esposito, Dominic		Vernalis	16-Jul-18
+L-248-17/1	Hopkins, Ralph F.		Vernalis	16-Jul-18
+L-248-17/1	Roberts, Veronica Ann		Vernalis	16-Jul-18
+L-107-10/2	NCI		Vasculox, Inc.	17-Jul-18
+L-208-18/0	Rosenberg, Steven A.	(b)(4);	Evotec SAS	18-Jul-18
+L-208-18/0	Spiese, Paul J	(b)(6)	Evotec SAS	18-Jul-18
+L-208-18/0	Yang, James C		Evotec SAS	18-Jul-18
+L-184-18/0	Bonomi, Carrie A.		Akrevia	18-Jul-18
+L-184-18/0	Borgel, Suzanne D.		Akrevia	18-Jul-18
+L-184-18/0	Dougherty, Kelly		Akrevia	18-Jul-18
+L-184-18/0	Hollingshead, Melinda G.		Akrevia	18-Jul-18
+L-104-12/0	NCI		Radiation Control Technologies	19-Jul-18
+L-130-94/2	King, Charles R.	(b)(4);	Santa Cruz Biotechnology	20-Jul-18
+L-130-94/2	Liotta, Lance	(b)(6)	Santa Cruz Biotechnology	20-Jul-18
+L-130-94/2	Steeg, Patricia S.		Santa Cruz Biotechnology	20-Jul-18
+L-174-18/0	Bonomi, Carrie A.		Scancell	20-Jul-18
+L-174-18/0	Borgel, Suzanne D.		Scancell	20-Jul-18
+L-174-18/0	Dougherty, Kelly		Scancell	20-Jul-18
+L-174-18/0	Hollingshead, Melinda G.		Scancell	20-Jul-18
+L-163-18/0	Bonomi, Carrie A.		Japan Tobacco	23-Jul-18
+L-163-18/0	Borgel, Suzanne D.		Japan Tobacco	23-Jul-18
+L-163-18/0	Dougherty, Kelly		Japan Tobacco	23-Jul-18
+L-163-18/0	Hollingshead, Melinda G.		Japan Tobacco	23-Jul-18
+L-045-04/1	Guedez, Liliana		Trevigen, Inc.	24-Jul-18
+L-045-04/1	Stetler-Stevenson, William G.		Trevigen, Inc.	24-Jul-18
<i>Note: L-045-04/1 split between NCI; NIBIB</i>				
+L-055-12/1	Gazdar, Adi F.		Molecular Imaging	25-Jul-18
+L-055-12/1	Johnson, Bruce E		Molecular Imaging	25-Jul-18
+L-055-12/1	Kaye, Frederic J		Molecular Imaging	25-Jul-18
+L-055-12/1	Kheif, Samir N.		Molecular Imaging	25-Jul-18
+L-055-12/1	Minna, John D.		Molecular Imaging	25-Jul-18
+L-055-12/1	Oie, Herbert K		Molecular Imaging	25-Jul-18
+L-055-12/1	Pass, Harvey I.		Molecular Imaging	25-Jul-18
+L-108-12/1	Buck, Christopher		The Company for Vaccine and Biological P	25-Jul-18
+L-108-12/1	(b) (4)		The Company for Vaccine and Biological P	25-Jul-18
+L-247-17/0	Bagni- Beyer, Rachel K.		Revolution Medicines, Inc.	27-Jul-18
+L-247-17/0	(b) (4)		Revolution Medicines, Inc.	27-Jul-18
+L-247-17/0	Holderfield, Matthew T.		Revolution Medicines, Inc.	27-Jul-18
+L-247-17/0	Soppet, Dan		Revolution Medicines, Inc.	27-Jul-18

(b) (3) (A), (b) (4), (b) (6)

+L-247-17/0	Bagni- Beyer, Rachel K.	(b)(4);	Revolution Medicines, Inc.	28-Jul-18
+L-247-17/0	(b) (4)	(b)(6)	Revolution Medicines, Inc.	28-Jul-18
+L-247-17/0	Holderfield, Matthew T.		Revolution Medicines, Inc.	28-Jul-18
+L-247-17/0	Soppet, Dan		Revolution Medicines, Inc.	28-Jul-18

NIH Patent Licensing Activities
NCI
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-049-01/3	Bustin, Michael	(b)(4); (b)(6)	Upstate	1-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-073-03/3	Gottesman, Michael M.		Genentech	1-Aug-18						
+L-073-03/3	Ueda, Kazumitsu		Genentech	1-Aug-18						
+L-061-14/0	Hwu, Patrick		Cabaret Biotech Ltd.	1-Aug-18						
+L-061-14/0	Rosenberg, Steven A.		Cabaret Biotech Ltd.	1-Aug-18						
+L-012-04/0	Li, Chou Chi		Affinity Bioreagents Inc	1-Aug-18						
+L-049-94/1	Cheng, Sheue-Yann		Affinity BioReagents	1-Aug-18						
+L-423-92/2	Schlom, Jeffrey		Zymed Laboratories, Inc.	1-Aug-18						
+L-242-02/2	Kawakami, Yutaka		Biocare Medical, LLC	1-Aug-18						
+L-242-02/2	Rosenberg, Steven A.		Biocare Medical, LLC	1-Aug-18						
+L-068-04/2	NCI		Jennerex, LLC	1-Aug-18						
<i>Note: L-068-04/2 split between NCI; NIAID</i>										
+L-047-06/2	(b) (4)	(b)(4); (b)(6)	Chembio Diagnostic	7-Aug-18						
+L-003-12/0	Potter, (b) (6) Michael		Exbio Praha AS	8-Aug-18						
+L-137-10/0	Potter, (b) (6) Michael		Exbio	8-Aug-18						
+L-102-13/0	Hathcock, Karen		EXBIO Praha	8-Aug-18						
+L-102-13/0	Hodes, Richard		EXBIO Praha	8-Aug-18						
+L-102-13/0	Laszlo, Gloria		EXBIO Praha	8-Aug-18						
<i>Note: L-102-13/0 split between NCI; NIA</i>										
+L-092-13/0	Potter, (b) (6) Michael		EXBIO Praha	8-Aug-18						
+L-165-18/0	Baskar, Sivasubramanian		Exbio Praha	8-Aug-18						
+L-165-18/0	Rader, Christoph		Exbio Praha	8-Aug-18						
+L-165-18/0	Baskar, Sivasubramanian		Exbio Praha	8-Aug-18						
+L-165-18/0	Rader, Christoph		Exbio Praha	8-Aug-18						
+L-002-04/1	Kawakami, Yutaka		Cell Marque	10-Aug-18						
+L-002-04/1	Robbins, Paul F		Cell Marque	10-Aug-18						
+L-002-04/1	Rosenberg, Steven A.		Cell Marque	10-Aug-18						
+L-068-18/0	Bonomi, Carrie A.		Dicerna Pharmaceuticals	10-Aug-18						
+L-068-18/0	Dougherty, Kelly		Dicerna Pharmaceuticals	10-Aug-18						
+L-068-18/0	Hollingshead, Melinda G.		Dicerna Pharmaceuticals	10-Aug-18						

+L-107-13/1	Beers, Richard	(b)(4);	OPUS BIO INC	10-Aug-18
+L-107-13/1	Kreitman, Robert J	(b)(6)	OPUS BIO INC	10-Aug-18
+L-107-13/1	Salvatore, Giuliana		OPUS BIO INC	10-Aug-18
+L-011-06/0	NCI		Dako Denmark A/S	13-Aug-18
+L-066-15/0	Rosenberg, Steven A.	(b)(4);	Genentech., Inc.	14-Aug-18
+L-039-11/0	Onda, Masanori	(b)(6)	Rockland Immunochemicals, Inc.	14-Aug-18
+L-108-18/0	Esposito, Dominic		StrideBio	14-Aug-18
+L-109-18/0	(b) (4)		StrideBio	14-Aug-18
+L-109-18/0	Esposito, Dominic		StrideBio	14-Aug-18
+L-109-18/0	Hopkins, Ralph F.		StrideBio	14-Aug-18
+L-109-18/0	Roberts, Veronica Ann		StrideBio	14-Aug-18
+L-232-14/0	NCI		NanoString Technologies, Inc.	14-Aug-18
<i>Note: L-232-14/0 split between CIT; NCI</i>				
+L-205-18/0	Hodge, James W.	(b)(4);	Chugai Pharmaceutical	15-Aug-18
+L-205-18/0	Young, Howard A.	(b)(6)	Chugai Pharmaceutical	15-Aug-18
+L-262-94/2	Battula, Narayana		BD Biosciences	15-Aug-18
+L-262-94/2	Gelboin, (b) (6) Harry		BD Biosciences	15-Aug-18
+L-262-94/2	Gonzalez, Frank J		BD Biosciences	15-Aug-18
<i>Note: L-262-94/2 split between NCI; NIAID</i>				
+L-214-97/3	Gelboin, (b) (6) Harry		BD&Co.	15-Aug-18
+L-214-97/3	Krausz, Kristopher W.		BD&Co.	15-Aug-18
+L-214-97/3	Yang, Tian J.		BD&Co.	15-Aug-18
+L-021-03/2	Gelboin, (b) (6) Harry		Discovery Labware Inc	15-Aug-18
+L-021-03/2	Gonzalez, Frank J		Discovery Labware Inc	15-Aug-18
+L-021-03/2	Krausz, Kristopher W.		Discovery Labware Inc	15-Aug-18
+L-324-98/3	Gelboin, (b) (6) Harry		Becton, Dickinson and Company	15-Aug-18
+L-324-98/3	Gonzalez, Frank J		Becton, Dickinson and Company	15-Aug-18
+L-324-98/3	Yang, Tian J.		Becton, Dickinson and Company	15-Aug-18
+L-262-94/2	Battula, Narayana		BD Biosciences	15-Aug-18
+L-262-94/2	Gelboin, (b) (6) Harry		BD Biosciences	15-Aug-18
+L-262-94/2	Gonzalez, Frank J		BD Biosciences	15-Aug-18
<i>Note: L-262-94/2 split between NCI; NIAID</i>				
+L-220-01/0	(b) (4)		Tibotec Pharm Ltd.	16-Aug-18
+L-262-94/2	Battula, Narayana		BD Biosciences	17-Aug-18
+L-262-94/2	Gelboin (b) (6) Harry		BD Biosciences	17-Aug-18
+L-262-94/2	Gonzalez, Frank J		BD Biosciences	17-Aug-18
<i>Note: L-262-94/2 split between NCI; NIAID</i>				
+L-071-06/0	(b) (4)		Altor Bioscience Corp	17-Aug-18
+L-071-06/0	Hwu, Patrick		Altor Bioscience Corp	17-Aug-18
+L-071-06/0	Kawakami, Yutaka		Altor Bioscience Corp	17-Aug-18
+L-071-06/0	Lapointe, Rejean		Altor Bioscience Corp	17-Aug-18
+L-071-06/0	Morgan, Richard A.		Altor Bioscience Corp	17-Aug-18
+L-071-06/0	Nishimura, Michael		Altor Bioscience Corp	17-Aug-18

+L-071-06/0	Parkhurst, Maria	(b)(4);	Altor Bioscience Corp	17-Aug-18	(b) (3) (A), (b) (4), (b) (6)
+L-071-06/0	Rosenberg, Steven A.	(b)(6)	Altor Bioscience Corp	17-Aug-18	
+L-071-06/0	Wang, Rong-fu		Altor Bioscience Corp	17-Aug-18	
+L-071-06/0	Zeng, Gang		Altor Bioscience Corp	17-Aug-18	
+L-259-16/2	Cafri, Gal		Kite Pharma	17-Aug-18	
+L-259-16/2	Lu, Yong-Chen		Kite Pharma	17-Aug-18	
+L-259-16/2	Pasetto, Anna		Kite Pharma	17-Aug-18	
+L-259-16/2	Robbins, Paul F		Kite Pharma	17-Aug-18	
+L-259-16/2	Rosenberg, Steven A.		Kite Pharma	17-Aug-18	
+L-259-16/2	Tran, Eric		Kite Pharma	17-Aug-18	
+L-259-16/2	Wang, Qiong		Kite Pharma	17-Aug-18	
+L-259-16/2	Yang, James C		Kite Pharma	17-Aug-18	
+L-259-16/2	Yoseph, Rami		Kite Pharma	17-Aug-18	
+L-259-16/2	Yu, Zhiya		Kite Pharma	17-Aug-18	
+L-259-16/2	Zheng, Zhili		Kite Pharma	17-Aug-18	
+L-073-03/3	Gottesman, Michael M.		Genentech	20-Aug-18	
+L-073-03/3	Ueda, Kazumitsu		Genentech	20-Aug-18	
+L-162-08/1	Roberts, (b) (6) Anita		BioLegend	22-Aug-18	
+L-162-08/1	Sporn, Michael B.		BioLegend	22-Aug-18	
<i>Note: L-162-08/1 split between NCI; NIAID</i>					
+L-073-09/0	Bonner, William M		BioLegend	22-Aug-18	
+L-073-09/0	Rogakou, Efthimia P		BioLegend	22-Aug-18	
+L-095-12/0	Baskar, Sivasubramanian		BioLegend	22-Aug-18	
+L-095-12/0	Rader, Christoph		BioLegend	22-Aug-18	
+L-280-17/0	Ise, Tomoko		EMD Millipore Sigma	23-Aug-18	
+L-280-17/0	Nagata, Satoshi		EMD Millipore Sigma	23-Aug-18	
+L-280-17/0	Xiang, Liaman		EMD Millipore Sigma	23-Aug-18	
+L-122-17/0	Choyke, Peter L		Koninklijke Philips N.V.	24-Aug-18	
+L-122-17/0	Pinto, Peter A		Koninklijke Philips N.V.	24-Aug-18	
+L-122-17/0	Turkbey, Ismail B.		Koninklijke Philips N.V.	24-Aug-18	
<i>Note: L-122-17/0 split between CC; NCI</i>					
+L-122-17/0	NCI		Koninklijke Philips N.V.	24-Aug-18	
<i>Note: L-122-17/0 split between CC; NCI</i>					
+L-298-96/2	NCI		Merck & Co., Inc.	27-Aug-18	
+L-123-17/0	Bonomi, Carrie A.	(b)(4);	Lupin Ltd.	27-Aug-18	
+L-123-17/0	Dougherty, Kelly	(b)(6)	Lupin Ltd.	27-Aug-18	
+L-123-17/0	Hollingshead, Melinda G.		Lupin Ltd.	27-Aug-18	
+L-022-17/0	(b) (4)		Etubics Corporation	27-Aug-18	
+L-022-17/0	Gritz, Linda R.		Etubics Corporation	27-Aug-18	
+L-022-17/0	Hodge, James W.		Etubics Corporation	27-Aug-18	
+L-022-17/0	Kantor, Judith A.		Etubics Corporation	27-Aug-18	
+L-022-17/0	Kozlov, Andrei P.		Etubics Corporation	27-Aug-18	
+L-022-17/0	Mazzara, Gail P.		Etubics Corporation	27-Aug-18	
+L-022-17/0	Palena, Claudia		Etubics Corporation	27-Aug-18	
+L-022-17/0	Panicali, Dennis L.		Etubics Corporation	27-Aug-18	
+L-022-17/0	Salazar, Elena Barzaga		Etubics Corporation	27-Aug-18	
+L-022-17/0	Schlom, Jeffrey		Etubics Corporation	27-Aug-18	
+L-022-17/0	Tsang, Kwong-Yok		Etubics Corporation	27-Aug-18	

+L-022-17/0	Zaremba, Sam	(b)(4); (b)(6)	Etubics Corporation	27-Aug-18	(b) (3) (A), (b) (4), (b) (6)
+L-012-18/1	Bonomi, Carrie A.	(b)(4); (b)(6)	Nurix	28-Aug-18	
+L-012-18/1	Borgel, Suzanne D.		Nurix	28-Aug-18	
+L-012-18/1	Dougherty, Kelly		Nurix	28-Aug-18	
+L-012-18/1	Hollingshead, Melinda G.		Nurix	28-Aug-18	
+L-091-11/0	(b) (4)		Quest Diagnostics, Inc.	28-Aug-18	
+L-083-11/0	Waldmann, Thomas A. <i>Note: L-083-11/0 split between NCI; NINDS</i>		Abbott Biotherapeutics Corp.	28-Aug-18	
+L-113-07/1	Aaronson, Stuart A.	(b)(4); (b)(6)	Ventana Medical Systems	28-Aug-18	
+L-113-07/1	King, Charles R.		Ventana Medical Systems	28-Aug-18	
+L-113-07/1	Kraus, (b) (6) Matthias		Ventana Medical Systems	28-Aug-18	
+L-210-15/0	NCI		GlovelImmune, Inc.	28-Aug-18	
+L-153-18/0	Bonomi, Carrie A.	(b)(4); (b)(6)	Halozyme	28-Aug-18	
+L-153-18/0	Borgel, Suzanne D.		Halozyme	28-Aug-18	
+L-153-18/0	Dougherty, Kelly		Halozyme	28-Aug-18	
+L-153-18/0	Hollingshead, Melinda G.		Halozyme	28-Aug-18	
+L-273-14/0	Chang, Nancy T.	(b)(4); (b)(6)	Grifols Worldwide Operations Ltd.	29-Aug-18	
+L-273-14/0	Crowl, Robert		Grifols Worldwide Operations Ltd.	29-Aug-18	
+L-273-14/0	Fisher, Amanda G.		Grifols Worldwide Operations Ltd.	29-Aug-18	
+L-273-14/0	Hahn, Beatrice		Grifols Worldwide Operations Ltd.	29-Aug-18	
+L-273-14/0	Reddy, E. Premkumar.		Grifols Worldwide Operations Ltd.	29-Aug-18	
+L-273-14/0	Sarnagadharan, Mangalasseril		Grifols Worldwide Operations Ltd.	29-Aug-18	
+L-115-95/2	NCI			MedImmune, Inc.	
+L-004-07/2	Qasba, Pradman	(b)(4);	Life Technologies Corp.	30-Aug-18	
+L-004-07/2	Ramakrishnan, Boopathy	(b)(6)	Life Technologies Corp.	30-Aug-18	

NIH Patent Licensing Activities
NCI
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-241-16/0	Bonomi, Carrie A.	(b)(4);	BeiGene, Ltd.	1-Sep-18	(b) (3) (A), (b) (4), (b) (6)					
+L-241-16/0	Borgel, Suzanne D.	(b)(6)	BeiGene, Ltd.	1-Sep-18						
+L-241-16/0	Dougherty, Kelly		BeiGene, Ltd.	1-Sep-18						
+L-241-16/0	Hollingshead, Melinda G.		BeiGene, Ltd.	1-Sep-18						
+L-165-99/1	(b) (4)		Trinity Biotech	4-Sep-18						
+L-029-93/0	(b) (4)		Genelabs	4-Sep-18						
+L-271-01/7	NCI		Millennium Pharmaceuticals, Inc.	4-Sep-18						
+L-091-10/0	Bonner, William M	(b)(4);	Novus Biologicals, Inc.	5-Sep-18						
+L-091-10/0	Rogakou, Efthimia P	(b)(6)	Novus Biologicals, Inc.	5-Sep-18						
+L-115-17/0	Giardina, Steven		VCN Biosciences, S.L.	5-Sep-18						
+L-115-17/0	Parks, Wade P		VCN Biosciences, S.L.	5-Sep-18						

+L-026-05/8 NCI

MedImmune, Inc.

6-Sep-18

(b) (3) (A), (b) (4), (b) (6)

+L-135-10/0 Barry, Todd

(b)(4); Genzyme Corporation

11-Sep-18

+L-135-10/0 Rosenwald, Andreas

(b)(6) Genzyme Corporation

11-Sep-18

+L-135-10/0 Staudt, Louis M

Genzyme Corporation

11-Sep-18

+L-135-10/0 Wiestner, Adrian

Genzyme Corporation

11-Sep-18

+L-135-10/0 Wilson, Wyndham H.

Genzyme Corporation

11-Sep-18

+L-004-07/2 NCI

Life Technologies Corp.

11-Sep-18

\$35,563,213.34	\$628,000.70	\$36,191,214.04	\$12,118,240.46	\$24,072,973.58
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NEI
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-142-12/1	NEI		Odin Biotech, LLC	5-Apr-18						(b) (3) (A), (b) (4)

Note: L-142-12/1 split between NEI; NIDCR

NIH Patent Licensing Activities
NEI
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NEI
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NEI
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NEI
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-025-02/0	Becerra, Sofia P	(b)(4)	Chemicon International Inc	1-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-025-02/0	Chader, Gerald J	(b)(6)	Chemicon International Inc	1-Aug-18						
+L-025-02/0	Rodriguez, Ignacio R		Chemicon International Inc	1-Aug-18						
+L-025-02/0	Steele, Fintan R.		Chemicon International Inc	1-Aug-18						
+L-025-02/0	Tombran-Tink, Joyce		Chemicon International Inc	1-Aug-18						
+L-025-02/0	(b) (4)		Chemicon International Inc	1-Aug-18						

Note: L-025-02/0 split between NEI; NINDS

+L-025-02/0 NEI Chemicon International Inc 1-Aug-18

Note: L-025-02/0 split between NEI; NINDS

NIH Patent Licensing Activities
 NEI
 September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-230-02/1	NEI		Bausch & Lomb	1-Sep-18						(b) (3) (A), (b) (4)
					\$2,874,833.51	\$15,281.40	\$2,890,114.91		\$123.27	\$2,889,991.64

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NHGRI
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-110-18/0	Chandler, Randy J.	(b)(4);	StrideBio	10-Apr-18						(b) (3) (A), (b) (4), (b) (6)
+L-110-18/0	Pavan, William J	(b)(6)	StrideBio	10-Apr-18						
+L-110-18/0	Venditti, Charles P.		StrideBio	10-Apr-18						
+L-075-18/0	Chandler, Randy J.		Selecta Biosciences	11-Apr-18						
+L-075-18/0	Manoli, Eirini		Selecta Biosciences	11-Apr-18						
+L-075-18/0	Venditti, Charles P.		Selecta Biosciences	11-Apr-18						

NIH Patent Licensing Activities
NHGRI
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-136-05/1	Meltzer, Paul	(b)(4);	Santa Cruz	30-May-18						(b) (3) (A), (b) (4), (b) (6)
+L-136-05/1	Trent, Jeffrey	(b)(6)	Santa Cruz	30-May-18						
+L-032-12/0	NHGRI		Agios Pharmaceuticals Inc	30-May-18						

Note: L-032-12/0 split between NCATS; NHGRI

NIH Patent Licensing Activities
NHGRI
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-260-17/0	Sidransky, Ellen	(b)(4);	Shire Human Genetic Therapies, Inc.	1-Jun-18						(b) (3) (A), (b) (4), (b) (6)
+L-260-17/0	Stubblefield, Barbara K.	(b)(6)	Shire Human Genetic Therapies, Inc.	1-Jun-18						
+L-146-18/0	Gahl, William A.		Leadiant Biosciences	14-Jun-18						
+L-146-18/0	Huizing, Marjan		Leadiant Biosciences	14-Jun-18						
+L-146-18/0	Klootwijk, Riko		Leadiant Biosciences	14-Jun-18						
+L-146-18/0	Manoli, Eirini		Leadiant Biosciences	14-Jun-18						

NIH Patent Licensing Activities
NHGRI
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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+L-201-15/4	Collins, Francis S	(b)(4);	IONIS	19-Jul-18	(b) (3) (A), (b) (4), (b) (6)
+L-201-15/4	Erdos, Michael R.	(b)(6)	IONIS	19-Jul-18	
+L-201-15/4	Eriksson, Maria		IONIS	19-Jul-18	
+L-201-15/4	Varga, Renee		IONIS	19-Jul-18	
+L-216-18/0	Chandler, Randy J.		StrideBio	19-Jul-18	
+L-216-18/0	Pavan, William J		StrideBio	19-Jul-18	
+L-216-18/0	Venditti, Charles P.		StrideBio	19-Jul-18	

NIH Patent Licensing Activities
NHGRI
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-228-18/0	Chandler, Randy J.	(b)(4); (b)(6)	Translate Bio	13-Aug-18	(b) (3) (A), (b) (4), (b) (6)					
+L-228-18/0	Manoli, Eirini		Translate Bio	13-Aug-18						
+L-228-18/0	Venditti, Charles P.		Translate Bio	13-Aug-18						
+L-229-18/0	Chandler, Randy J.		Translate Bio	13-Aug-18						
+L-229-18/0	Venditti, Charles P.		Translate Bio	13-Aug-18						
+L-216-18/0	Chandler, Randy J.		StrideBio	15-Aug-18						
+L-216-18/0	Pavan, William J		StrideBio	15-Aug-18						
+L-216-18/0	Venditti, Charles P.		StrideBio	15-Aug-18						
+L-227-18/0	Chandler, Randy J.		LogicBio Therapeutics	21-Aug-18						
+L-227-18/0	Smith, Stephanie N.		LogicBio Therapeutics	21-Aug-18						
+L-227-18/0	Venditti, Charles P.		LogicBio Therapeutics	21-Aug-18						
+L-205-98/0	Meltzer, Paul		Affinity BioReagents	30-Aug-18						
+L-205-98/0	Trent, Jeffrey		Affinity BioReagents	30-Aug-18						

NIH Patent Licensing Activities
NHGRI
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-168-18/0	Chandler, Randy J.	(b)(4); (b)(6)	Moderna Therapeutics, Inc.	1-Sep-18	(b) (3) (A), (b) (4), (b) (6)					
+L-168-18/0	Manoli, Eirini		Moderna Therapeutics, Inc.	1-Sep-18						
+L-168-18/0	Venditti, Charles P.		Moderna Therapeutics, Inc.	1-Sep-18						
+L-246-18/0	Chandler, Randy J.		Translate Bio, Inc	11-Sep-18						
+L-246-18/0	Manoli, Eirini		Translate Bio, Inc	11-Sep-18						
+L-246-18/0	Venditti, Charles P.		Translate Bio, Inc	11-Sep-18						
+L-246-18/0	Chandler, Randy J.		Translate Bio, Inc	11-Sep-18						
+L-246-18/0	Manoli, Eirini		Translate Bio, Inc	11-Sep-18						

+L-246-18/0	Venditti, Charles P.	(b)(4); (b)(6)	Translate Bio, Inc
+L-245-18/0	Chandler, Randy J.		Translate Bio, Inc
+L-245-18/0	Venditti, Charles P.		Translate Bio, Inc

11-Sep-18	(b) (3) (A), (b) (4), (b) (6)			
11-Sep-18				
11-Sep-18				

\$381 573.83	\$2 791.37	\$384 365.20	\$87 234.24	\$297 130.96
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NHLBI
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License	Inventor Awards April	Net Remaining to IC
								Cumulative Income		
+L-259-02/0	Nirenberg, (b) (6) Marshall	(b)(4);	R & D Systems, Inc.	4-Apr-18						(b) (3) (A), (b) (4), (b) (6)
+L-259-02/0	Walsh, Frank	(b)(6)	R & D Systems, Inc.	4-Apr-18						
<i>Note: L-259-02/0 split between NHLBI; NIAID</i>										
+L-256-14/0	NHLBI		VisiTech International	6-Apr-18						
<i>Note: L-256-14/0 split between NHLBI; NIBIB</i>										
+L-063-15/0	NHLBI		BioMarin Pharma.	11-Apr-18						
+L-327-14/0	NHLBI		Voyager Therapeutics	11-Apr-18						
+L-105-17/0	Chiorini, John A.	(b)(4);	Genzyme Corporation	19-Apr-18						
+L-105-17/0	Kotin, Robert M.	(b)(6)	Genzyme Corporation	19-Apr-18						
+L-063-15/0	Ding, Chuantian		BioMarin Pharma.	20-Apr-18						
+L-063-15/0	Kotin, Robert M.		BioMarin Pharma.	20-Apr-18						
+L-063-15/0	Urabe, Masashi		BioMarin Pharma.	20-Apr-18						
+L-295-17/0	Ding, Chuan-Tian		CELiD Biotechnologies, Inc	21-Apr-18						
+L-295-17/0	Kotin, Robert M.		CELiD Biotechnologies, Inc	21-Apr-18						
+L-295-17/0	Urabe, Masashi		CELiD Biotechnologies, Inc	21-Apr-18						
+L-294-17/0	Kotin, Robert M.		CELiD Biotechnologies, Inc.	21-Apr-18						
+L-294-17/0	Li, Lina		CELiD Biotechnologies, Inc.	21-Apr-18						

NIH Patent Licensing Activities
NHLBI
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License	Inventor Awards May	Net Remaining to IC
								Cumulative Income		
+L-036-18/0	NHLBI		Cook Medical	1-May-18						(b) (3) (A), (b) (4), (b) (6)
+L-104-18/0	Ding, Chuan-Tian	(b)(4);	LakePharma	1-May-18						
+L-104-18/0	Kotin, Robert M.	(b)(6)	LakePharma	1-May-18						
+L-104-18/0	Urabe, Masashi		LakePharma	1-May-18						
+L-072-18/0	Remaley, Alan T.		Corvidia Therapeutics	8-May-18						
+L-072-18/0	Sviridov, Denis O.		Corvidia Therapeutics	8-May-18						
+L-072-18/0	Wolska, Anna		Corvidia Therapeutics	8-May-18						
+L-098-18/0	Cherkasova, Elena A.		T-Cure Bioscience	23-May-18						
+L-098-18/0	Childs, Richard W.		T-Cure Bioscience	23-May-18						
+L-098-18/0	(b) (4)		T-Cure Bioscience	23-May-18						

(b) (3) (A), (b) (4), (b) (6)

+L-098-18/0	NHLBI		T-Cure Bioscience	23-May-18
+L-098-18/0	Cherkasova, Elena A.	(b)(4);	T-Cure Bioscience	24-May-18
+L-098-18/0	Childs, Richard W.	(b)(6)	T-Cure Bioscience	24-May-18
+L-098-18/0	(b) (4)		T-Cure Bioscience	24-May-18
+L-140-18/0	Haque, Nazmul		Millipore Sigma	29-May-18
+L-140-18/0	Hogg, John Robert		Millipore Sigma	29-May-18

NIH Patent Licensing Activities
NHLBI
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License	Inventor Awards June	Net Remaining to IC
								Cumulative Income		
+L-097-08/4	Knepper, Mark A	(b)(4);	Novus	5-Jun-18						(b) (3) (A), (b) (4), (b) (6)
+L-015-12/1	NHLBI		EndOclear LLC	5-Jun-18						
+L-240-17/0	Cannon, Richard O.	(b)(4);	United Therapeutics Corporation	7-Jun-18						
+L-240-17/0	Gladwin, Mark T.	(b)(6)	United Therapeutics Corporation	7-Jun-18						
+L-240-17/0	Hunter, Christian J		United Therapeutics Corporation	7-Jun-18						
+L-240-17/0	(b) (4)		United Therapeutics Corporation	7-Jun-18						
+L-240-17/0	(b) (4)		United Therapeutics Corporation	7-Jun-18						
+L-240-17/0	(b) (4)		United Therapeutics Corporation	7-Jun-18						
+L-240-17/0	(b) (4)		United Therapeutics Corporation	7-Jun-18						

Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS

+L-327-14/0	NHLBI		Voyager Therapeutics	20-Jun-18
+L-187-14/0	NHLBI		Andor Technology PLC	21-Jun-18

Note: L-187-14/0 split between NHLBI; NIBIB

NIH Patent Licensing Activities
NHLBI
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License	Inventor Awards July	Net Remaining to IC
								Cumulative Income		
+L-042-06/2	Aletras, Anthony Homer	(b)(4);	Siemens AG, Med. Solutions	1-Jul-18						(b) (3) (A), (b) (4), (b) (6)
+L-042-06/2	Kellman, Peter	(b)(6)	Siemens AG, Med. Solutions	1-Jul-18						
+L-042-06/2	McVeigh, Elliott R		Siemens AG, Med. Solutions	1-Jul-18						
+L-042-06/2	Wen, Han		Siemens AG, Med. Solutions	1-Jul-18						
+L-314-14/1	NHLBI		Bikanta Corporation	1-Jul-18						

Note: L-314-14/1 split between NCI; NHLBI

+L-105-17/0	NHLBI		Genzyme Corporation	19-Jul-18
+L-221-02/0	Kajigaya, Sachiko	(b)(4); (b)	Stichting Contacten (SCB)	20-Jul-18

+L-221-02/0 Shimada, Takashi
 +L-221-02/0 Young, Neal

(b)(4); (b)(6) Stichting Contacten (SCB) 20-Jul-18
 (b)(6) Stichting Contacten (SCB) 20-Jul-18

(b) (3) (A), (b) (4), (b) (6)

**NIH Patent Licensing Activities
 NHLBI
 August 2018**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC						
+L-102-07/0	Nirenberg, (b) (6) Marshall	(b)(4);	Invitrogen Corp	1-Aug-18						(b) (3) (A), (b) (4), (b) (6)						
+L-102-07/0	Walsh, Frank	(b)(6)	Invitrogen Corp	1-Aug-18												
<i>Note: L-102-07/0 split between NHLBI; NIAID</i>																
+L-063-15/0	NHLBI		BioMarin Pharma.	3-Aug-18												
+L-243-16/0	Boehm, Manfred	(b)(4);	StemCell Technologies Inc.	6-Aug-18												
+L-243-16/0	Chen, Guibin	(b)(6)	StemCell Technologies Inc.	6-Aug-18												
+L-243-16/0	Larochelle, Andre		StemCell Technologies Inc.	6-Aug-18												
<i>Note: L-243-16/0 split between NHLBI; NIAMS</i>																
+L-234-18/0	Kotin, Robert M.		Generation Bio	9-Aug-18												
+L-234-18/0	Li, Lina		Generation Bio	9-Aug-18												
+L-116-11/3	Chiorini, John A.		uniQure B.V.	14-Aug-18												
+L-116-11/3	Kotin, Robert M.		uniQure B.V.	14-Aug-18												
+L-116-11/3	(b) (4)		uniQure B.V.	14-Aug-18												
<i>Note: L-116-11/3 split between NHLBI; NIDCR</i>																
+L-088-12/0	NHLBI		Sangamo BioSciences Inc	14-Aug-18												
<i>Note: L-088-12/0 split between NHLBI; NIDCR</i>																
+L-186-18/0	Ding, Chuan-Tian	(b)(4);	Casebia Therapeutics	22-Aug-18												
+L-186-18/0	Kotin, Robert M.	(b)(6)	Casebia Therapeutics	22-Aug-18												
+L-186-18/0	Urabe, Masashi		Casebia Therapeutics	22-Aug-18												
+L-015-12/1	Berra, Lorenzo		EndOclear LLC	24-Aug-18												
+L-015-12/1	Kolobow, Theodor		EndOclear LLC	24-Aug-18												

**NIH Patent Licensing Activities
 NHLBI
 September 2018**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-058-14/0	Chiorini, John A.	(b)(4);	Spark Therapeutics Ireland Ltd	6-Sep-18						(b) (3) (A), (b) (4), (b) (6)
+L-058-14/0	Kotin, Robert M.	(b)(6)	Spark Therapeutics Ireland Ltd	6-Sep-18						
+L-058-14/0	Chiorini, John A.		Spark Therapeutics Ireland Ltd	6-Sep-18						
+L-058-14/0	Kotin, Robert M.		Spark Therapeutics Ireland Ltd	6-Sep-18						

+L-058-14/0	NHLBI		Spark Therapeutics Ireland Ltd
+L-058-14/0	Chiorini, John A.	(b)(4); (b)	park Therapeutics Ireland Ltd
+L-058-14/0	Kotin, Robert M.	(6)	park Therapeutics Ireland Ltd

6-Sep-18
6-Sep-18
6-Sep-18



(b) (3) (A), (b) (4), (b) (6)

\$405,832.97	\$69,415.84	\$475,248.81	\$151,528.32	\$323,720.49
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities

NIA

April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-014-89/2	Pitha, Josef	(b)(4); (b)(6)	Janssen Pharmaceutica Products, L.P.	12-Apr-18						(b) (3) (A), (b) (4), (b) (6)
+L-079-17/0	NIA		VuEssence, Inc.	26-Apr-18						

Note: L-079-17/0 split between NIA; NINDS; NINR

NIH Patent Licensing Activities

NIA

May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-131-18/0	Bagrov, Alexei	(b)(4);	CTS Biopharma	15-May-18						(b) (3) (A), (b) (4), (b) (6)
+L-131-18/0	Fedorova, Olga V.	(b)(6)	CTS Biopharma	15-May-18						
+L-131-18/0	Lakatta, Edward G.		CTS Biopharma	15-May-18						
+L-122-18/1	Greig, Nigel H		Peptron	29-May-18						
+L-122-18/1	Kim, Dong Seok		Peptron	29-May-18						
+L-122-18/1	Li, Yazhou		Peptron	29-May-18						

NIH Patent Licensing Activities

NIA

June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-122-18/1	NIA		Peptron	1-Jun-18						(b) (3) (A), (b) (4)

NIH Patent Licensing Activities

NIA

July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-328-14/0	NIA		Novo Nordisk A/S	5-Jul-18						(b) (3) (A), (b) (4)
+L-281-14/1	NIA		Peptron	5-Jul-18						

NIH Patent Licensing Activities

NIA
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-102-13/0	Hodes, Richard J	(b)(4);	EXBIO Praha	8-Aug-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-102-13/0 split between NCI; NIA</i>										
+L-014-89/2	NIA		Janssen Pharmaceutica Products, L.P.	20-Aug-18						
+L-131-18/0	NIA		CTS Biopharma	23-Aug-18						
+L-310-98/0	NIA		Jurox Pty. Limited	27-Aug-18						

NIH Patent Licensing Activities

NIA
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-025-17/1	Moaddel, Ruin	(b)(4); (b)	Tocris Bioscience	12-Sep-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-025-17/1 split between NCATS; NIA; NIMH</i>										

\$3,301,972.45	\$49,781.27	\$3,351,753.72	\$147,508.33	\$3,204,245.39
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities

NIAAA

April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities

NIAAA

May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities

NIAAA

June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities

NIAAA

July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-162-16/3	Cinar, Resat	(b)(4); (b)(6)	Inversago	18-Jul-18						(b) (3) (A), (b) (4), (b) (6)
+L-162-16/3	Iyer, Malliga R.		Inversago	18-Jul-18						
+L-162-16/3	Kunos, George I		Inversago	18-Jul-18						

Note: L-162-16/3 split between NIAAA; NIDA

NIH Patent Licensing Activities

NIAAA

August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-162-16/3	Cinar, Resat	(b)(4); (b)(6)	Inversago	9-Aug-18						(b) (3) (A), (b) (4), (b) (6)

+L-162-16/3 Iyer, Malliga R. (b)(4); (b) Inversago 9-Aug-18
 +L-162-16/3 Kunos, George I (6) Inversago 9-Aug-18

Note: L-162-16/3 split between NIAAA; NIDA

+L-162-16/3 Cinar, Resat (b)(4); (b) Inversago 9-Aug-18
 +L-162-16/3 Iyer, Malliga R. (6) Inversago 9-Aug-18
 +L-162-16/3 Kunos, George I Inversago 9-Aug-18
 +L-162-16/3 Rice, Kenner C. Inversago 9-Aug-18

Note: L-162-16/3 split between NIAAA; NIDA

NIH Patent Licensing Activities

NIAAA

September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$47,767.49	\$0.00	\$47,767.49		\$9,466.87	\$38,300.62

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 NIAID
 April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License	Inventor Awards April	Net Remaining to IC
								Cumulative Income		
+L-070-16/1	Akahata, Wataru	(b)(4);	PaxVax, Inc.	1-Apr-18						(b) (3) (A), (b) (4), (b) (6)
+L-070-16/1	Nabel, Gary J	(b)(6)	PaxVax, Inc.	1-Apr-18						
+L-070-16/1	Rao, Srinivas		PaxVax, Inc.	1-Apr-18						
+L-070-16/1	Sullivan, Nancy J		PaxVax, Inc.	1-Apr-18						
+L-070-16/1	Yang, Zhi-Yong		PaxVax, Inc.	1-Apr-18						
Note: L-070-16/1 split between CDC; NIAID										
+L-265-98/1	Bray, Michael		Sanofi Pasteur Biologics Co	3-Apr-18						
+L-265-98/1	Chanock, (b) (6) Robert		Sanofi Pasteur Biologics Co	3-Apr-18						
+L-265-98/1	Eckels, Kenneth H		Sanofi Pasteur Biologics Co	3-Apr-18						
+L-265-98/1	Lai, Ching-Juh		Sanofi Pasteur Biologics Co	3-Apr-18						
+L-265-98/1	Men, Ruhe		Sanofi Pasteur Biologics Co	3-Apr-18						
+L-265-98/1	Pletnev, Alexander G		Sanofi Pasteur Biologics Co	3-Apr-18						
+L-265-98/1	Zhang, Yi-Ming		Sanofi Pasteur Biologics Co	3-Apr-18						
+L-211-14/1	Biacchesi, Stephanie		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Buchholz, Ursula		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Bukreyev, Alexander		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Collins, Peter L.		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Luongo, Cindy L.		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Murphy, Brian R.		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Nutt, Anne S.		ViraTree, LLC	3-Apr-18						
+L-211-14/1	(b) (4)		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Skiadopoulos, Mario		ViraTree, LLC	3-Apr-18						
+L-211-14/1	(b) (4)		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Biacchesi, Stephanie		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Buchholz, Ursula		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Bukreyev, Alexander		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Collins, Peter L.		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Luongo, Cindy L.		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Murphy, Brian R.		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Nutt, Anne S.		ViraTree, LLC	3-Apr-18						
+L-211-14/1	(b) (4)		ViraTree, LLC	3-Apr-18						
+L-211-14/1	Skiadopoulos, Mario		ViraTree, LLC	3-Apr-18						
+L-211-14/1	(b) (4)		ViraTree, LLC	3-Apr-18						
+L-074-91/2	Harriman, Gregory R.		Becton Dickinson & Subsidiary PharMingen	3-Apr-18						
+L-074-91/2	Kunimoto, Dennis Y.		Becton Dickinson & Subsidiary PharMingen	3-Apr-18						
+L-074-91/2	Paul, (b) (6) William E.		Becton Dickinson & Subsidiary PharMingen	3-Apr-18						
+L-074-91/2	Strober, Warren		Becton Dickinson & Subsidiary PharMingen	3-Apr-18						
+L-079-93/2	Ohara, Junichi		BD Biosciences - BD PharMingen	3-Apr-18						
+L-079-93/2	Paul, (b) (6) William E.		BD Biosciences - BD PharMingen	3-Apr-18						
+L-115-00/2	Cheung, Yiu Chong Gordon		List Biological Laboratories, Inc.	4-Apr-18						
+L-115-00/2	Gupta, Pradeep K.		List Biological Laboratories, Inc.	4-Apr-18						
+L-115-00/2	Hsu, Su-Cheng Dana		List Biological Laboratories, Inc.	4-Apr-18						
+L-115-00/2	Hu, Haijing		List Biological Laboratories, Inc.	4-Apr-18						
+L-115-00/2	Leppla, Stephen H.		List Biological Laboratories, Inc.	4-Apr-18						
+L-115-00/2	Leysath, Clinton E.		List Biological Laboratories, Inc.	4-Apr-18						
+L-115-00/2	Moayeri, Mahtab		List Biological Laboratories, Inc.	4-Apr-18						

+L-115-00/2	Pomerantsev, Andrei P <i>Note: L-115-00/2 split between NIAID; NIDCR</i>	(b)(4); (b)(6)	List Biological Laboratories, Inc.	4-Apr-18
+L-265-98/1	Bray, Michael		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Chanock, (b) (6) Robert		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Eckels, Kenneth H		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Lai, Ching-Juh		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Men, Ruhe		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Pletnev, Alexander G		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Zhang, Yi-Ming		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Bray, Michael		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Chanock, (b) (6) Robert		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Eckels, Kenneth H		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Lai, Ching-Juh		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Men, Ruhe		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Pletnev, Alexander G		Sanofi Pasteur Biologics Co	4-Apr-18
+L-265-98/1	Zhang, Yi-Ming		Sanofi Pasteur Biologics Co	4-Apr-18
+L-221-16/0	Bermingham, Alison		Sanofi Pasteur	4-Apr-18
+L-221-16/0	Buchholz, Ursula		Sanofi Pasteur	4-Apr-18
+L-221-16/0	Collins, Peter L.		Sanofi Pasteur	4-Apr-18
+L-221-16/0	Graham, Barney S.		Sanofi Pasteur	4-Apr-18
+L-221-16/0	Kwong, Peter D.		Sanofi Pasteur	4-Apr-18
+L-221-16/0	Liang, Bo		Sanofi Pasteur	4-Apr-18
+L-221-16/0	Luongo, Cindy L.		Sanofi Pasteur	4-Apr-18
+L-221-16/0	McCarty, Thomas Charles		Sanofi Pasteur	4-Apr-18
+L-221-16/0	McLellan, Jason Scott		Sanofi Pasteur	4-Apr-18
+L-221-16/0	Munir, Shirin		Sanofi Pasteur	4-Apr-18
+L-221-16/0	Murphy, Brian R.		Sanofi Pasteur	4-Apr-18
+L-221-16/0	Nutt, Anne S.		Sanofi Pasteur	4-Apr-18
+L-122-08/0	Mackett, Michael		Vaccinex Inc	4-Apr-18
+L-122-08/0	Moss, Bernard		Vaccinex Inc	4-Apr-18
+L-122-08/0	Smith, Geoffrey L		Vaccinex Inc	4-Apr-18
+L-259-02/0	Eisenbarth, (b) (6) George <i>Note: L-259-02/0 split between NHLBI; NIAID</i>		R & D Systems, Inc.	4-Apr-18
+L-012-07/1	Eisenbarth, (b) (6) George		Santa Cruz Biotechnology Inc	9-Apr-18
+L-012-07/1	Fauci, Anthony		Santa Cruz Biotechnology Inc	9-Apr-18
+L-012-07/1	Haynes, Barton F.		Santa Cruz Biotechnology Inc	9-Apr-18
+L-056-18/0	Akin, Cem		ActivX Biosciences	10-Apr-18
+L-056-18/0	Kirshenbaum, Arnold		ActivX Biosciences	10-Apr-18
+L-056-18/0	Metcalfe, Dean D		ActivX Biosciences	10-Apr-18
+L-063-18/0	Shevach, Ethan M		Millipore Sigma	10-Apr-18
+L-236-16/0	Akin, Cem		IRBM	11-Apr-18
+L-236-16/0	Kirshenbaum, Arnold		IRBM	11-Apr-18
+L-236-16/0	Metcalfe, Dean D		IRBM	11-Apr-18
+L-097-18/0	Akin, Cem		Evotec International	16-Apr-18
+L-097-18/0	Kirshenbaum, Arnold		Evotec International	16-Apr-18
+L-097-18/0	Metcalfe, Dean D		Evotec International	16-Apr-18
+L-065-18/0	Akin, Cem		Sanofi-Aventis	19-Apr-18
+L-065-18/0	Kirshenbaum, Arnold		Sanofi-Aventis	19-Apr-18

(b) (3) (A), (b) (4), (b) (6)

+L-065-18/0	Metcalfe, Dean D	(b)(4); (b)(6)	Sanofi-Aventis	19-Apr-18
+L-066-14/0	Akin, Cem		Allakos, Inc.	23-Apr-18
+L-066-14/0	Kirshenbaum, Arnold		Allakos, Inc.	23-Apr-18
+L-066-14/0	Metcalfe, Dean D		Allakos, Inc.	23-Apr-18
+L-050-18/0	Caldwell, Harlan D		Millipore Sigma	24-Apr-18
+L-016-11/1	Adachi, Akio		Merck Sharp & Dohme, Corp.	24-Apr-18
+L-016-11/1	Folks, Thomas M		Merck Sharp & Dohme, Corp.	24-Apr-18
+L-016-11/1	Leonard, John M.		Merck Sharp & Dohme, Corp.	24-Apr-18
+L-016-11/1	Martin, Malcolm A		Merck Sharp & Dohme, Corp.	24-Apr-18
+L-016-11/1	Rabson, Arnold B.		Merck Sharp & Dohme, Corp.	24-Apr-18
+L-016-11/1	Rutledge, Rosamond A.		Merck Sharp & Dohme, Corp.	24-Apr-18
+L-016-11/1	Theodore, (b) (6) Theodore S		Merck Sharp & Dohme, Corp.	24-Apr-18
+L-016-11/1	Willey, Ronald L.		Merck Sharp & Dohme, Corp.	24-Apr-18
+L-241-13/0	Shevach, Ethan M		Tonbo Biotechnologies Corp	25-Apr-18
+L-135-17/1	Boyington, Jeffrey C.		Emergent Product Development	25-Apr-18
+L-135-17/1	Corbett, Kizzmekia		Emergent Product Development	25-Apr-18
+L-135-17/1	Graham, Barney S.		Emergent Product Development	25-Apr-18
+L-135-17/1	Kanekiyo, Masaru		Emergent Product Development	25-Apr-18
+L-135-17/1	Kong, Wing-pui		Emergent Product Development	25-Apr-18
+L-135-17/1	Kwong, Peter D.		Emergent Product Development	25-Apr-18
+L-135-17/1	Mascola, John R.		Emergent Product Development	25-Apr-18
+L-135-17/1	McTamney, Patrick		Emergent Product Development	25-Apr-18
+L-135-17/1	Moin, Syed M.		Emergent Product Development	25-Apr-18
+L-135-17/1	Nabel, Gary J		Emergent Product Development	25-Apr-18
+L-135-17/1	Sullivan, Nancy J		Emergent Product Development	25-Apr-18
+L-135-17/1	Wang, Lingshu		Emergent Product Development	25-Apr-18
+L-135-17/1	Wei, Chih-Jen		Emergent Product Development	25-Apr-18
+L-135-17/1	Whittle, James R R		Emergent Product Development	25-Apr-18
+L-135-17/1	Yang, Zhi-Yong		Emergent Product Development	25-Apr-18
+L-135-17/1	Yassine, Hadi M.		Emergent Product Development	25-Apr-18
<i>Note: L-135-17/1 split between CDC; NIAID</i>				
+L-103-18/0	Boyington, Jeffrey C.		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Chen, Lei		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Chen, Man		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Chuang, Gwo-Yu		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Georgiev, Ivelin S.		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Gorman, Jason		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Graham, Barney S.		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Joyce, Michael G.		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Kanekiyo, Masaru		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Kwong, Peter D.		BlueWillow Biologics	26-Apr-18
+L-103-18/0	McLellan, Jason Scott		BlueWillow Biologics	26-Apr-18
+L-103-18/0	OFEK, GILAD A		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Pancera, Marie L.		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Sastry, Mallika		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Soto, Cinque		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Srivatsan, Sanjay R.		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Stewart-Jones, Guillaume BE		BlueWillow Biologics	26-Apr-18
+L-103-18/0	YANG, YONGPING		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Zhang, Baoshan		BlueWillow Biologics	26-Apr-18
+L-103-18/0	Zhou, Tongqing		BlueWillow Biologics	26-Apr-18

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIAID
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-144-14/1	Baxa, Ulrich	(b)(4):	Novartis	1-May-18						(b) (3) (A), (b) (4), (b) (6)
+L-144-14/1	Boyington, Jeffrey C.	(b)(6)	Novartis	1-May-18						
+L-144-14/1	Chen, Lei		Novartis	1-May-18						
+L-144-14/1	Chen, Man		Novartis	1-May-18						
+L-144-14/1	Chuang, Gwo-Yu		Novartis	1-May-18						
+L-144-14/1	Druz, Aliaksandr A.		Novartis	1-May-18						
+L-144-14/1	Galen, Joseph Van		Novartis	1-May-18						
+L-144-14/1	Georgiev, Ivelin S.		Novartis	1-May-18						
+L-144-14/1	Gorman, Jason		Novartis	1-May-18						
+L-144-14/1	Graham, Barney S.		Novartis	1-May-18						
+L-144-14/1	Joyce, Michael G.		Novartis	1-May-18						
+L-144-14/1	Kanekiyo, Masaru		Novartis	1-May-18						
+L-144-14/1	Kong, Wing-pui		Novartis	1-May-18						
+L-144-14/1	Kwong, Peter D.		Novartis	1-May-18						
+L-144-14/1	Mascola, John R.		Novartis	1-May-18						
+L-144-14/1	McLellan, Jason Scott		Novartis	1-May-18						
+L-144-14/1	OFEK, GILAD A		Novartis	1-May-18						
+L-144-14/1	Ou, Li		Novartis	1-May-18						
+L-144-14/1	Pancera, Marie L.		Novartis	1-May-18						
+L-144-14/1	Rundlet, Emily		Novartis	1-May-18						
+L-144-14/1	Sastry, Mallika		Novartis	1-May-18						
+L-144-14/1	Soto, Cinque		Novartis	1-May-18						
+L-144-14/1	Srivatsan, Sanjay R.		Novartis	1-May-18						
+L-144-14/1	Stewart-Jones, Guillaume BE		Novartis	1-May-18						
+L-144-14/1	Thomas, Paul V.		Novartis	1-May-18						
+L-144-14/1	Tsybovsky, Yaroslav		Novartis	1-May-18						
+L-144-14/1	YANG, YONGPING		Novartis	1-May-18						
+L-144-14/1	Zhang, Baoshan		Novartis	1-May-18						
+L-144-14/1	Zhou, Tongqing		Novartis	1-May-18						
+L-169-07/2	Folks, Thomas M		Gilead Sciences, Inc.	3-May-18						
+L-169-07/2	Justement, Jesse S		Gilead Sciences, Inc.	3-May-18						
+L-169-07/2	Kinter, Audrey L		Gilead Sciences, Inc.	3-May-18						
+L-080-06/3	NIAID		Panacea Biotech Ltd.	4-May-18						
<i>Note: L-080-06/3 split between FDA; NIAID</i>										
+L-094-13/1	Ohta, Akio	(b)(4):	Redoxtherapies Inc	4-May-18						
+L-094-13/1	Sitkovsky, Michail V.	(b)(6)	Redoxtherapies Inc	4-May-18						
+L-217-16/0	Blaney, Jr., Joseph E		Indian Immunologicals Ltd	7-May-18						
+L-217-16/0	Hanley, Kathryn		Indian Immunologicals Ltd	7-May-18						
+L-217-16/0	Lai, Ching-Juh		Indian Immunologicals Ltd	7-May-18						
+L-217-16/0	Murphy, Brian R.		Indian Immunologicals Ltd	7-May-18						
+L-217-16/0	Whitehead, Stephen S.		Indian Immunologicals Ltd	7-May-18						
<i>Note: L-217-16/0 split between FDA; NIAID</i>										
+L-162-15/1	Baxa, Ulrich		Merck Sharp and dohme	7-May-18						
+L-162-15/1	Boyington, Jeffrey C.		Merck Sharp and dohme	7-May-18						
+L-162-15/1	Chen, Lei		Merck Sharp and dohme	7-May-18						
+L-162-15/1	Chen, Man		Merck Sharp and dohme	7-May-18						
+L-162-15/1	Chuang, Gwo-Yu		Merck Sharp and dohme	7-May-18						

+L-162-15/1	Druz, Aliaksandr A.	(b)(4);	Merck Sharp and dohme	7-May-18
+L-162-15/1	Galen, Joseph Van	(b)(6)	Merck Sharp and dohme	7-May-18
+L-162-15/1	Georgiev, Ivelin S.		Merck Sharp and dohme	7-May-18
+L-162-15/1	Gorman, Jason		Merck Sharp and dohme	7-May-18
+L-162-15/1	Graham, Barney S.		Merck Sharp and dohme	7-May-18
+L-162-15/1	Joyce, Michael G.		Merck Sharp and dohme	7-May-18
+L-162-15/1	Kanekiyo, Masaru		Merck Sharp and dohme	7-May-18
+L-162-15/1	Kong, Wing-pui		Merck Sharp and dohme	7-May-18
+L-162-15/1	Kwong, Peter D.		Merck Sharp and dohme	7-May-18
+L-162-15/1	Mascola, John R.		Merck Sharp and dohme	7-May-18
+L-162-15/1	McLellan, Jason Scott		Merck Sharp and dohme	7-May-18
+L-162-15/1	OFEK, GILAD A		Merck Sharp and dohme	7-May-18
+L-162-15/1	Ou, Li		Merck Sharp and dohme	7-May-18
+L-162-15/1	Pancera, Marie L.		Merck Sharp and dohme	7-May-18
+L-162-15/1	Rundlet, Emily		Merck Sharp and dohme	7-May-18
+L-162-15/1	Sastry, Mallika		Merck Sharp and dohme	7-May-18
+L-162-15/1	Soto, Cinque		Merck Sharp and dohme	7-May-18
+L-162-15/1	Srivatsan, Sanjay R.		Merck Sharp and dohme	7-May-18
+L-162-15/1	Stewart-Jones, Guillaume BE		Merck Sharp and dohme	7-May-18
+L-162-15/1	Thomas, Paul V.		Merck Sharp and dohme	7-May-18
+L-162-15/1	Tsybovsky, Yaroslav		Merck Sharp and dohme	7-May-18
+L-162-15/1	YANG, YONGPING		Merck Sharp and dohme	7-May-18
+L-162-15/1	Zhang, Baoshan		Merck Sharp and dohme	7-May-18
+L-162-15/1	Zhou, Tongqing		Merck Sharp and dohme	7-May-18
+L-043-18/0	Boyington, Jeffrey C.		MedImmune	11-May-18
+L-043-18/0	Chen, Lei		MedImmune	11-May-18
+L-043-18/0	Chen, Man		MedImmune	11-May-18
+L-043-18/0	Chuang, Gwo-Yu		MedImmune	11-May-18
+L-043-18/0	Georgiev, Ivelin S.		MedImmune	11-May-18
+L-043-18/0	Gorman, Jason		MedImmune	11-May-18
+L-043-18/0	Graham, Barney S.		MedImmune	11-May-18
+L-043-18/0	Joyce, Michael G.		MedImmune	11-May-18
+L-043-18/0	Kanekiyo, Masaru		MedImmune	11-May-18
+L-043-18/0	Kwong, Peter D.		MedImmune	11-May-18
+L-043-18/0	McLellan, Jason Scott		MedImmune	11-May-18
+L-043-18/0	OFEK, GILAD A		MedImmune	11-May-18
+L-043-18/0	Pancera, Marie L.		MedImmune	11-May-18
+L-043-18/0	Sastry, Mallika		MedImmune	11-May-18
+L-043-18/0	Soto, Cinque		MedImmune	11-May-18
+L-043-18/0	Srivatsan, Sanjay R.		MedImmune	11-May-18
+L-043-18/0	Stewart-Jones, Guillaume BE		MedImmune	11-May-18
+L-043-18/0	YANG, YONGPING		MedImmune	11-May-18
+L-043-18/0	Zhang, Baoshan		MedImmune	11-May-18
+L-043-18/0	Zhou, Tongqing		MedImmune	11-May-18
+L-138-16/0	Biacchesi, Stephanie		Merck Sharp & Dohme Corp.	15-May-18
+L-138-16/0	Buchholz, Ursula		Merck Sharp & Dohme Corp.	15-May-18
+L-138-16/0	Collins, Peter L.		Merck Sharp & Dohme Corp.	15-May-18
+L-199-17/0	NIAD		Infectious Disease Research Institute	17-May-18
+L-001-15/2	Blaney, Jr., Joseph E	(b)(4);	Merck Sharp & Dohme, Corp.	21-May-18
+L-001-15/2	Bray, Michael	(b)(6)	Merck Sharp & Dohme, Corp.	21-May-18
+L-001-15/2	Chanock, (b) (6) Robert		Merck Sharp & Dohme, Corp.	21-May-18
+L-001-15/2	Eckels, Kenneth H		Merck Sharp & Dohme, Corp.	21-May-18
+L-001-15/2	Hanley, Kathryn		Merck Sharp & Dohme, Corp.	21-May-18
+L-001-15/2	Lai, Ching-Juh		Merck Sharp & Dohme, Corp.	21-May-18
+L-001-15/2	Men, Ruhe		Merck Sharp & Dohme, Corp.	21-May-18

+L-001-15/2	Murphy, Brian R.	(b)(4);	Merck Sharp & Dohme, Corp.	21-May-18	(b) (3) (A), (b) (4), (b) (6)	
+L-001-15/2	Pletnev, Alexander G	(b)(6)	Merck Sharp & Dohme, Corp.	21-May-18		
+L-001-15/2	Whitehead, Stephen S.		Merck Sharp & Dohme, Corp.	21-May-18		
+L-001-15/2	Zhang, Yi-Ming		Merck Sharp & Dohme, Corp.	21-May-18		
<i>Note: L-001-15/2 split between FDA; NIAID</i>						
+L-245-94/1	Folks, Thomas M		Boston Biomedics	21-May-18		
+L-245-94/1	Martin, Malcolm A		Boston Biomedics	21-May-18		
+L-245-94/1	Powell, Douglas M		Boston Biomedics	21-May-18		
<i>Note: L-245-94/1 split between NCI; NIAID</i>						
+L-135-13/0	NIAID		Biologics	22-May-18		
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>						
+L-197-05/5	NIAID		Serum Institute of India	29-May-18		
+L-118-11/1	Alexander, Robert M.	(b)(4);	Transwall	30-May-18		
+L-118-11/1	Jenkins, John P.	(b)(6)	Transwall	30-May-18		
+L-118-11/1	Koh, Franklin		Transwall	30-May-18		
+L-118-11/1	O'Brien, Daniel P.		Transwall	30-May-18		
+L-118-11/1	Quasney, Judit A.		Transwall	30-May-18		
+L-136-04/2	Ohara, Junichi		Santa Cruz	30-May-18		
+L-136-04/2	Paul, (b) (6) William E.		Santa Cruz	30-May-18		
+L-108-07/1	Caldwell, Harlan D		Santa Cruz Biot., Inc.	30-May-18		
+L-108-07/1	Morrison, Richard P.		Santa Cruz Biot., Inc.	30-May-18		
+L-031-08/1	Shevach, Ethan M		Santa Cruz Biotechnolgy Inc	30-May-18		

NIH Patent Licensing Activities
NIAID
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-118-09/2	Chanock, (b) (6) Robert	(b)(4);	Sinovac Biotech, Ltd.	4-Jun-18					(b) (3) (A), (b) (4), (b) (6)
+L-118-09/2	Hoshino, Yasutaka	(b)(6)	Sinovac Biotech, Ltd.	4-Jun-18					
+L-118-09/2	Kapikian, (b) (6) Albert Z		Sinovac Biotech, Ltd.	4-Jun-18					
+L-118-09/2	NIAID		Sinovac Biotech, Ltd.	4-Jun-18					
+L-179-15/0	Mackett, Michael	(b)(4);	Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-179-15/0	Moss, Bernard	(b)(6)	Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-179-15/0	Smith, Geoffrey L		Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-167-16/0	Adachi, Akio		Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-167-16/0	Folks, Thomas M		Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-167-16/0	Leonard, John M.		Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-167-16/0	Martin, Malcolm A		Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-167-16/0	Rabson, Arnold B.		Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-167-16/0	Rutledge, Rosamond A.		Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-167-16/0	Theodore, (b) (6) Theodore S		Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-167-16/0	Willey, Ronald L.		Regeneron Pharmaceuticals, Inc.	5-Jun-18					
+L-124-18/0	Garboczi, David		Abcam plc	6-Jun-18					
+L-124-18/0	Lantz, Larry		Abcam plc	6-Jun-18					

+L-124-18/0	Leppla, Stephen H.	(b)(4);	Abcam plc	6-Jun-18
+L-124-18/0	Leysath, Clinton E.	(b)(6)	Abcam plc	6-Jun-18
+L-124-18/0	Phillips, Damilola D.		Abcam plc	6-Jun-18
+L-113-09/1	Bray, Michael		Inviragen, Inc.	7-Jun-18
+L-113-09/1	Chanock, (b) (6) Robert		Inviragen, Inc.	7-Jun-18
+L-113-09/1	Eckels, Kenneth H		Inviragen, Inc.	7-Jun-18
+L-113-09/1	Lai, Ching-Juh		Inviragen, Inc.	7-Jun-18
+L-113-09/1	Men, Ruhe		Inviragen, Inc.	7-Jun-18
+L-113-09/1	Pletnev, Alexander G		Inviragen, Inc.	7-Jun-18
+L-113-09/1	Zhang, Yi-Ming		Inviragen, Inc.	7-Jun-18
+L-114-09/0	Blaney, Jr., Joseph E		Co for Vaccine and Bio Productin	12-Jun-18
+L-114-09/0	Hanley, Kathryn		Co for Vaccine and Bio Productin	12-Jun-18
+L-114-09/0	Lai, Ching-Juh		Co for Vaccine and Bio Productin	12-Jun-18
+L-114-09/0	Murphy, Brian R.		Co for Vaccine and Bio Productin	12-Jun-18
+L-114-09/0	Whitehead, Stephen S.		Co for Vaccine and Bio Productin	12-Jun-18
<i>Note: L-114-09/0 split between FDA; NIAID</i>				
+L-040-13/0	NIAID		Baxter Akiengesellschaft Industr	14-Jun-18
+L-245-94/1	Folks, Thomas M	(b)(4);	Boston Biomedics	14-Jun-18
+L-245-94/1	Martin, Malcolm A	(b)(6)	Boston Biomedics	14-Jun-18
+L-245-94/1	Powell, Douglas M		Boston Biomedics	14-Jun-18
<i>Note: L-245-94/1 split between NCI; NIAID</i>				
+L-164-15/0	NIAID		Texcell	18-Jun-18
+L-164-15/0	Emerson, Suzanne U.	(b)(4);	Texcell	18-Jun-18
+L-164-15/0	Nguyen, Hanh T.	(b)(6)	Texcell	18-Jun-18
+L-164-15/0	Purcell, Robert H		Texcell	18-Jun-18
+L-164-15/0	(b) (4)		Texcell	18-Jun-18
+L-164-15/0	Shukla Bajpai, Priyanka		Texcell	18-Jun-18
+L-191-16/0	Akin, Cem		GlaxoSmithKline LLC	20-Jun-18
+L-191-16/0	Kirshenbaum, Arnold		GlaxoSmithKline LLC	20-Jun-18
+L-191-16/0	Metcalfe, Dean D		GlaxoSmithKline LLC	20-Jun-18
+L-061-13/0	NIAID		BioFactura, Inc.	23-Jun-18
+L-116-18/0	Emerson, Suzanne U.	(b)(4);	Katholieke	25-Jun-18
+L-116-18/0	Nguyen, Hanh T.	(b)(6)	Katholieke	25-Jun-18
+L-116-18/0	Purcell, Robert H		Katholieke	25-Jun-18
+L-116-18/0	(b) (4)		Katholieke	25-Jun-18
+L-116-18/0	Shukla Bajpai, Priyanka		Katholieke	25-Jun-18
+L-178-18/0	Garboczi, David		Absolute Antibody	26-Jun-18
+L-178-18/0	Lantz, Larry		Absolute Antibody	26-Jun-18
+L-178-18/0	Leppla, Stephen H.		Absolute Antibody	26-Jun-18
+L-178-18/0	Leysath, Clinton E.		Absolute Antibody	26-Jun-18
+L-178-18/0	Phillips, Damilola D.		Absolute Antibody	26-Jun-18
+L-120-95/3	Shevach, Ethan M		Southern Biotechnology Associates, Inc.	27-Jun-18

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIAID
July 2018

License	Inventor	Inventor		Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
		Share %	Licensee							
+L-176-18/0	NIAID		Ridgeback	3-Jul-18						(b) (3) (A), (b) (4), (b) (6)
+L-116-18/0	Emerson, Suzanne U.	(b)(4);	Katholieke	3-Jul-18						
+L-116-18/0	Nguyen, Hanh T.	(b)(6)	Katholieke	3-Jul-18						
+L-116-18/0	Purcell, Robert H		Katholieke	3-Jul-18						
+L-116-18/0	(b) (4)		Katholieke	3-Jul-18						
+L-116-18/0	Shukla Bajpai, Priyanka		Katholieke	3-Jul-18						
+L-079-93/2	Ohara, Junichi		BD Biosciences - BD PharMingen	5-Jul-18						
+L-079-93/2	Paul, (b) (6) William E.		BD Biosciences - BD PharMingen	5-Jul-18						
+L-074-91/2	Harriman, Gregory R.		Becton Dickinson & Subsidiary PharMingen	5-Jul-18						
+L-074-91/2	Kunimoto, Dennis Y.		Becton Dickinson & Subsidiary PharMingen	5-Jul-18						
+L-074-91/2	Paul, (b) (6) William E.		Becton Dickinson & Subsidiary PharMingen	5-Jul-18						
+L-074-91/2	Strober, Warren		Becton Dickinson & Subsidiary PharMingen	5-Jul-18						
+L-144-14/1	Baxa, Ulrich		Novartis	5-Jul-18						
+L-144-14/1	Boyington, Jeffrey C.		Novartis	5-Jul-18						
+L-144-14/1	Chen, Lei		Novartis	5-Jul-18						
+L-144-14/1	Chen, Man		Novartis	5-Jul-18						
+L-144-14/1	Chuang, Gwo-Yu		Novartis	5-Jul-18						
+L-144-14/1	Druz, Aliaksandr A.		Novartis	5-Jul-18						
+L-144-14/1	Galen, Joseph Van		Novartis	5-Jul-18						
+L-144-14/1	Georgiev, Ivelin S.		Novartis	5-Jul-18						
+L-144-14/1	Gorman, Jason		Novartis	5-Jul-18						
+L-144-14/1	Graham, Barney S.		Novartis	5-Jul-18						
+L-144-14/1	Joyce, Michael G.		Novartis	5-Jul-18						
+L-144-14/1	Kanekiyo, Masaru		Novartis	5-Jul-18						
+L-144-14/1	Kong, Wing-pui		Novartis	5-Jul-18						
+L-144-14/1	Kwong, Peter D.		Novartis	5-Jul-18						
+L-144-14/1	Mascola, John R.		Novartis	5-Jul-18						
+L-144-14/1	McLellan, Jason Scott		Novartis	5-Jul-18						
+L-144-14/1	OFEK, GILAD A		Novartis	5-Jul-18						
+L-144-14/1	Ou, Li		Novartis	5-Jul-18						
+L-144-14/1	Pancera, Marie L.		Novartis	5-Jul-18						
+L-144-14/1	Rundlet, Emily		Novartis	5-Jul-18						
+L-144-14/1	Sastry, Mallika		Novartis	5-Jul-18						
+L-144-14/1	Soto, Cinque		Novartis	5-Jul-18						
+L-144-14/1	Srivatsan, Sanjay R.		Novartis	5-Jul-18						
+L-144-14/1	Stewart-Jones, Guillaume BE		Novartis	5-Jul-18						
+L-144-14/1	Thomas, Paul V.		Novartis	5-Jul-18						
+L-144-14/1	Tsybovsky, Yaroslav		Novartis	5-Jul-18						
+L-144-14/1	YANG, YONGPING		Novartis	5-Jul-18						
+L-144-14/1	Zhang, Baoshan		Novartis	5-Jul-18						
+L-144-14/1	Zhou, Tongqing		Novartis	5-Jul-18						
+L-155-18/0	Baxa, Ulrich		Icosavax	6-Jul-18						
+L-155-18/0	Boyington, Jeffrey C.		Icosavax	6-Jul-18						
+L-155-18/0	Chen, Lei		Icosavax	6-Jul-18						
+L-155-18/0	Chen, Man		Icosavax	6-Jul-18						
+L-155-18/0	Chuang, Gwo-Yu		Icosavax	6-Jul-18						
+L-155-18/0	Druz, Aliaksandr A.		Icosavax	6-Jul-18						
+L-155-18/0	Galen, Joseph Van		Icosavax	6-Jul-18						
+L-155-18/0	Georgiev, Ivelin S.		Icosavax	6-Jul-18						
+L-155-18/0	Gorman, Jason		Icosavax	6-Jul-18						
+L-155-18/0	Graham, Barney S.		Icosavax	6-Jul-18						

+L-155-18/0	Joyce, Michael G.	(b)(4);	Icosavax	6-Jul-18
+L-155-18/0	Kanekiyo, Masaru	(b)(6)	Icosavax	6-Jul-18
+L-155-18/0	Kong, Wing-pui		Icosavax	6-Jul-18
+L-155-18/0	Kwong, Peter D.		Icosavax	6-Jul-18
+L-155-18/0	Mascola, John R.		Icosavax	6-Jul-18
+L-155-18/0	McLellan, Jason Scott		Icosavax	6-Jul-18
+L-155-18/0	OFEK, GILAD A		Icosavax	6-Jul-18
+L-155-18/0	Ou, Li		Icosavax	6-Jul-18
+L-155-18/0	Pancera, Marie L.		Icosavax	6-Jul-18
+L-155-18/0	Rundlet, Emily		Icosavax	6-Jul-18
+L-155-18/0	Sastry, Mallika		Icosavax	6-Jul-18
+L-155-18/0	Soto, Cinque		Icosavax	6-Jul-18
+L-155-18/0	Srivatsan, Sanjay R.		Icosavax	6-Jul-18
+L-155-18/0	Stewart-Jones, Guillaume		Icosavax	6-Jul-18
+L-155-18/0	Thomas, Paul V.		Icosavax	6-Jul-18
+L-155-18/0	Tsybovsky, Yaroslav		Icosavax	6-Jul-18
+L-155-18/0	YANG, YONGPING		Icosavax	6-Jul-18
+L-155-18/0	Zhang, Baoshan		Icosavax	6-Jul-18
+L-155-18/0	Zhou, Tongqing		Icosavax	6-Jul-18
+L-155-18/0	Baxa, Ulrich		Icosavax	6-Jul-18
+L-155-18/0	Boyington, Jeffrey C.		Icosavax	6-Jul-18
+L-155-18/0	Chen, Lei		Icosavax	6-Jul-18
+L-155-18/0	Chen, Man		Icosavax	6-Jul-18
+L-155-18/0	Chuang, Gwo-Yu		Icosavax	6-Jul-18
+L-155-18/0	Druz, Aliaksandr A.		Icosavax	6-Jul-18
+L-155-18/0	Galen, Joseph Van		Icosavax	6-Jul-18
+L-155-18/0	Georgiev, Ivelin S.		Icosavax	6-Jul-18
+L-155-18/0	Gorman, Jason		Icosavax	6-Jul-18
+L-155-18/0	Graham, Barney S.		Icosavax	6-Jul-18
+L-155-18/0	Joyce, Michael G.		Icosavax	6-Jul-18
+L-155-18/0	Kanekiyo, Masaru		Icosavax	6-Jul-18
+L-155-18/0	Kong, Wing-pui		Icosavax	6-Jul-18
+L-155-18/0	Kwong, Peter D.		Icosavax	6-Jul-18
+L-155-18/0	Mascola, John R.		Icosavax	6-Jul-18
+L-155-18/0	McLellan, Jason Scott		Icosavax	6-Jul-18
+L-155-18/0	OFEK, GILAD A		Icosavax	6-Jul-18
+L-155-18/0	Ou, Li		Icosavax	6-Jul-18
+L-155-18/0	Pancera, Marie L.		Icosavax	6-Jul-18
+L-155-18/0	Rundlet, Emily		Icosavax	6-Jul-18
+L-155-18/0	Sastry, Mallika		Icosavax	6-Jul-18
+L-155-18/0	Soto, Cinque		Icosavax	6-Jul-18
+L-155-18/0	Srivatsan, Sanjay R.		Icosavax	6-Jul-18
+L-155-18/0	Stewart-Jones, Guillaume		Icosavax	6-Jul-18
+L-155-18/0	Thomas, Paul V.		Icosavax	6-Jul-18
+L-155-18/0	Tsybovsky, Yaroslav		Icosavax	6-Jul-18
+L-155-18/0	YANG, YONGPING		Icosavax	6-Jul-18
+L-155-18/0	Zhang, Baoshan		Icosavax	6-Jul-18
+L-155-18/0	Zhou, Tongqing		Icosavax	6-Jul-18

+L-070-16/1 NIAID
Note: L-070-16/1 split between CDC; NIAID

PaxVax, Inc.

12-Jul-18

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIAID
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-225-94/4	Siebenlist, Ulrich	(b)(4);	Upstate	1-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-102-07/0	Eisenbarth, (b) (6) George <i>Note: L-102-07/0 split between NHLBI; NIAID</i>	(b)(6)	Invitrogen Corp	1-Aug-18						
+L-068-04/2	NIAID <i>Note: L-068-04/2 split between NCI; NIAID</i>		Jennerex, LLC	1-Aug-18						
+L-101-14/0	DeVico, Angela M.	(b)(4);	EXBIO Praha	8-Aug-18						
+L-101-14/0	Korty, Patricia E.	(b)(6)	EXBIO Praha	8-Aug-18						
+L-101-14/0	Shevach, Ethan M		EXBIO Praha	8-Aug-18						
+L-021-10/0	Long, Eric O.		EXBIO Praha	8-Aug-18						
+L-021-10/0	Rajagopalan, Sumati		EXBIO Praha	8-Aug-18						
+L-037-06/0	Bukh, Jens		Apath, LLC	8-Aug-18						
+L-037-06/0	Emerson, Suzanne U.		Apath, LLC	8-Aug-18						
+L-037-06/0	Purcell, Robert H		Apath, LLC	8-Aug-18						
+L-037-06/0	Yanagi, Masayuki		Apath, LLC	8-Aug-18						
+L-009-06/0	Collins, Peter L.		Apath, LLC	8-Aug-18						
+L-201-18/0	NIAID		Mapp	8-Aug-18						
+L-001-15/2	Blaney, Jr., Joseph E	(b)(4);	Merck Sharp & Dohme, Corp.	9-Aug-18						
+L-001-15/2	Bray, Michael	(b)(6)	Merck Sharp & Dohme, Corp.	9-Aug-18						
+L-001-15/2	Chanock, (b) (6) Robert		Merck Sharp & Dohme, Corp.	9-Aug-18						
+L-001-15/2	Eckels, Kenneth H		Merck Sharp & Dohme, Corp.	9-Aug-18						
+L-001-15/2	Hanley, Kathryn		Merck Sharp & Dohme, Corp.	9-Aug-18						
+L-001-15/2	Lai, Ching-Juh		Merck Sharp & Dohme, Corp.	9-Aug-18						
+L-001-15/2	Men, Ruhe		Merck Sharp & Dohme, Corp.	9-Aug-18						
+L-001-15/2	Murphy, Brian R.		Merck Sharp & Dohme, Corp.	9-Aug-18						
+L-001-15/2	Pletnev, Alexander G		Merck Sharp & Dohme, Corp.	9-Aug-18						
+L-001-15/2	Whitehead, Stephen S.		Merck Sharp & Dohme, Corp.	9-Aug-18						
+L-001-15/2	Zhang, Yi-Ming		Merck Sharp & Dohme, Corp.	9-Aug-18						
	<i>Note: L-001-15/2 split between FDA; NIAID</i>									
+L-130-05/2	NIAID		Biological E Limited	13-Aug-18						
+L-111-15/1	NIAID		Codagenix Inc.	13-Aug-18						
+L-262-94/2	Moss, Bernard <i>Note: L-262-94/2 split between NCI; NIAID</i>	(b)(4);	BD Biosciences	15-Aug-18						
		(b)(6)								
+L-262-94/2	Moss, Bernard <i>Note: L-262-94/2 split between NCI; NIAID</i>		BD Biosciences	15-Aug-18						
+L-111-15/1	NIAID		Codagenix Inc.	15-Aug-18						
+L-068-05/2	NIAID		Fundacao	16-Aug-18						
+L-262-94/2	Moss, Bernard <i>Note: L-262-94/2 split between NCI; NIAID</i>	(b)	BD Biosciences	17-Aug-18						
		(4);								
		(b)(6)								
+L-162-08/1	Sun, Peter D		BioLegend	22-Aug-18						
+L-162-08/1	Zou, Zhongcheng		BioLegend	22-Aug-18						

Note: L-162-08/1 split between NCI; NIAID

+L-115-00/2	Cheung, Yiu Chong Gordon	(b)(4);	ist Biological Laboratories, Inc.	22-Aug-18
+L-115-00/2	Gupta, Pradeep K.	(b)(6)	ist Biological Laboratories, Inc.	22-Aug-18
+L-115-00/2	Hsu, Su-Cheng Dana		ist Biological Laboratories, Inc.	22-Aug-18
+L-115-00/2	Hu, Haijing		ist Biological Laboratories, Inc.	22-Aug-18
+L-115-00/2	Leppla, Stephen H.		ist Biological Laboratories, Inc.	22-Aug-18
+L-115-00/2	Leysath, Clinton E.		ist Biological Laboratories, Inc.	22-Aug-18
+L-115-00/2	Moayeri, Mahtab		ist Biological Laboratories, Inc.	22-Aug-18
+L-115-00/2	Pomerantsev, Andrei P		ist Biological Laboratories, Inc.	22-Aug-18

Note: L-115-00/2 split between NIAID; NIDCR

+L-050-18/0	Caldwell, Harlan D		Millipore Sigma	23-Aug-18
+L-078-11/0	Mackett, Michael		CEVA Biomune	27-Aug-18
+L-078-11/0	Moss, Bernard		CEVA Biomune	27-Aug-18
+L-078-11/0	Smith, Geoffrey L		CEVA Biomune	27-Aug-18

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIAID
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-144-14/1	NIAID		Novartis	14-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-154-06/0	Mackett, Michael	(b)(4);	Merial Limited	1-Sep-18						
+L-154-06/0	Moss, Bernard	(b)(6)	Merial Limited	1-Sep-18						
+L-154-06/0	Smith, Geoffrey L		Merial Limited	1-Sep-18						
+L-174-05/7	NIAID		Aridis Pharmaceuticals, LLC	1-Sep-18						
+L-035-13/0	NIAID		GlaxoSmithKline	5-Sep-18						

Note: L-035-13/0 split between FDA; NIAID

+L-050-18/0	Caldwell, Harlan D	(b)(4);	Millipore Sigma	5-Sep-18						
+L-175-18/0	Boyington, Jeffrey C.	(b)(6)	CureVac AG	5-Sep-18						
+L-175-18/0	Chen, Lei		CureVac AG	5-Sep-18						
+L-175-18/0	Chen, Man		CureVac AG	5-Sep-18						
+L-175-18/0	Chuang, Gwo-Yu		CureVac AG	5-Sep-18						
+L-175-18/0	Georgiev, Ivelin S.		CureVac AG	5-Sep-18						
+L-175-18/0	Gorman, Jason		CureVac AG	5-Sep-18						
+L-175-18/0	Graham, Barney S.		CureVac AG	5-Sep-18						
+L-175-18/0	Joyce, Michael G.		CureVac AG	5-Sep-18						
+L-175-18/0	Kanekiyo, Masaru		CureVac AG	5-Sep-18						
+L-175-18/0	Kwong, Peter D.		CureVac AG	5-Sep-18						
+L-175-18/0	McLellan, Jason Scott		CureVac AG	5-Sep-18						
+L-175-18/0	OFEK, GILAD A		CureVac AG	5-Sep-18						
+L-175-18/0	Pancera, Marie L.		CureVac AG	5-Sep-18						
+L-175-18/0	Sastry, Mallika		CureVac AG	5-Sep-18						
+L-175-18/0	Soto, Cinque		CureVac AG	5-Sep-18						
+L-175-18/0	Srivatsan, Sanjay R.		CureVac AG	5-Sep-18						
+L-175-18/0	Stewart-Jones, Guillaume		CureVac AG	5-Sep-18						
+L-175-18/0	YANG, YONGPING		CureVac AG	5-Sep-18						
+L-175-18/0	Zhang, Baoshan		CureVac AG	5-Sep-18						
+L-175-18/0	Zhou, Tongqing		CureVac AG	5-Sep-18						

Adjustment ID	Inventor Name	Company	Date	Amount
+L-073-18/0	Guatam, Rejeev	(b)(4); Gilead Sciences, Inc.	6-Sep-18	(b) (3) (A), (b) (4), (b) (6)
+L-073-18/0	Martin, Malcolm A	(b)(6) Gilead Sciences, Inc.	6-Sep-18	
+L-073-18/0	Nishimura, Michael	Gilead Sciences, Inc.	6-Sep-18	
+L-073-18/0	Sadjadpour, Reza	Gilead Sciences, Inc.	6-Sep-18	
+L-073-18/0	Shingai, Masashi	Gilead Sciences, Inc.	6-Sep-18	
+L-073-18/0	Guatam, Rejeev	Gilead Sciences, Inc.	6-Sep-18	
+L-073-18/0	Martin, Malcolm A	Gilead Sciences, Inc.	6-Sep-18	
+L-073-18/0	Nishimura, Michael	Gilead Sciences, Inc.	6-Sep-18	
+L-073-18/0	Sadjadpour, Reza	Gilead Sciences, Inc.	6-Sep-18	
+L-073-18/0	Shingai, Masashi	Gilead Sciences, Inc.	6-Sep-18	
+L-266-16/1	Akin, Cem	Glenmark Pharmaceuticals, S.A.	6-Sep-18	
+L-266-16/1	Kirshenbaum, Arnold	Glenmark Pharmaceuticals, S.A.	6-Sep-18	
+L-266-16/1	Metcalfe, Dean D	Glenmark Pharmaceuticals, S.A.	6-Sep-18	
+L-266-16/1	Akin, Cem	Glenmark Pharmaceuticals, S.A.	6-Sep-18	
+L-266-16/1	Kirshenbaum, Arnold	Glenmark Pharmaceuticals, S.A.	6-Sep-18	
+L-266-16/1	Metcalfe, Dean D	Glenmark Pharmaceuticals, S.A.	6-Sep-18	
+L-199-17/0	NIAID	Infectious Disease Research Institute	10-Sep-18	
+L-084-02/1	Shevach, Ethan M	(b)(4): (b) Miltenyi Biotec GMBH (6)	11-Sep-18	
+L-197-05/5	Chanock, (b) (6) Robert	Serum Institute of India	14-Sep-18	
+L-197-05/5	Hoshino, Yasutaka	Serum Institute of India	14-Sep-18	
+L-197-05/5	Kapikian, (b) (6) Albert Z	Serum Institute of India	14-Sep-18	

+ denotes a manual adjustment which has already been paid to the inventor

\$2 593 870.74	\$230 836.90	\$2 824 707.64	\$630 358.55	\$2 194 349.09
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NIH Patent Licensing Activities
 NIAMS
 April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
 NIAMS
 May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
 NIAMS
 June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
 NIAMS
 July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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+L-066-05/1 Kinet, Jean-Pierre (b)(4); (b) President and Fellows of Harvard College 17-Jul-18 (b) (3) (A), (b) (4), (b) (6)
 Note: L-066-05/1 split between NIAMS; NIDCR

NIH Patent Licensing Activities
 NIAMS
 August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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+L-243-16/0 Rao, Mahendra S (b)(4); (b)(6) StemCell Technologies Inc. 6-Aug-18 (b) (3) (A), (b) (4), (b) (6)
 Note: L-243-16/0 split between NHLBI; NIAMS

NIH Patent Licensing Activities
 NIAMS
 September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities

NIBIB

April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-256-14/0	NIBIB		VisiTech International	6-Apr-18						(b) (3) (A), (b) (4)

Note: L-256-14/0 split between NHLBI; NIBIB

NIH Patent Licensing Activities

NIBIB

May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities

NIBIB

June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-045-04/1	Bungay, Peter M	(b)(4); (b)	Trevigen, Inc.	13-Jun-18						(b) (3) (A), (b) (4), (b) (6)

Note: L-045-04/1 split between NCI; NIBIB

+L-187-14/0 NIBIB Andor Technology PLC 21-Jun-18

Note: L-187-14/0 split between NHLBI; NIBIB

NIH Patent Licensing Activities

NIBIB

July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-045-04/1	Bungay, Peter M	(b)(4); (b)	Trevigen, Inc.	24-Jul-18						(b) (3) (A), (b) (4), (b) (6)

Note: L-045-04/1 split between NCI; NIBIB

NIH Patent Licensing Activities

NIBIB

August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
NIBIB
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
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==== (b) (3) (A), (b) (4), (b) (6)

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 NICHD
 April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Financials			License Cumulative Income	Inventor Awards April	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income			
+L-069-18/0	Chou, Janice Y.	(b)(4); (b)(6)	Dimension Therapeutics	11-Apr-18					(b) (3) (A), (b) (4), (b) (6)	
+L-076-08/0	NICHD		Emergent Product Development Gaithersbur	25-Apr-18						

Note: L-076-08/0 split between NICHD; NIDCR; NIDDK

NIH Patent Licensing Activities
 NICHD
 May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Financials			License Cumulative Income	Inventor Awards May	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income			
+L-135-13/0	NICHD		Biologics	22-May-18					(b) (3) (A), (b) (4), (b) (6)	
+L-132-04/2	Klein, David C.	(b)(4);	Santa Cruz Biotechnology Inc	30-May-18						
+L-132-04/2	Moffett, John R	(b)(6)	Santa Cruz Biotechnology Inc	30-May-18						
+L-132-04/2	Namboodiri, Aryan M		Santa Cruz Biotechnology Inc	30-May-18						
+L-132-04/2	Roseboom, Patrick		Santa Cruz Biotechnology Inc	30-May-18						
+L-132-04/2	Weller, Joan		Santa Cruz Biotechnology Inc	30-May-18						

Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK

NIH Patent Licensing Activities
 NICHD
 June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Financials			License Cumulative Income	Inventor Awards June	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income			
+L-280-14/1	NICHD		Arche Opitex Biomedical, Inc.	20-Jun-18					(b) (3) (A), (b) (4), (b) (6)	
*+L-280-14/1	Gandjbakhche, Amir H	(b)(4);	Arche Opitex Biomedical, Inc.	20-Jun-18						
+L-280-14/1	(b) (4)	(b)(6)	Arche Opitex Biomedical, Inc.	20-Jun-18						
*+L-280-14/1	Riley, Jason D.		Arche Opitex Biomedical, Inc.	20-Jun-18						

Note: L-280-14/1 split between NICHD; NINDS

NIH Patent Licensing Activities
 NICHD
 July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Financials			License Cumulative Income	Inventor Awards July	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income			
+L-207-18/0	Chou, Janice Y.	(b)(4);	Generation Bio	13-Jul-18					(b) (3) (A), (b) (4), (b) (6)	
+L-207-18/0	Chou, Janice Y.	(b)(6)	Generation Bio	13-Jul-18						

NIH Patent Licensing Activities
 NICHD
 August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total August	License	Inventor Awards August	Net Remaining to IC
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
+L-138-93/2	Crouch, Robert J.	(b)(4); (b)(6)	Stratagene	7-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-079-18/0	Buonanno, Andres		Millipore Sigma	23-Aug-18						
+L-079-18/0	Vullhorst, Detlef		Millipore Sigma	23-Aug-18						

NIH Patent Licensing Activities
 NICHD
 September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total September	License	Inventor Awards September	Net Remaining to IC
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
+L-137-12/0	Ozato Dawid, Keiko	(b)(4); (b)(6)	Pierce Biotechnology	11-Sep-18						(b) (3) (A), (b) (4), (b) (6)
+L-293-14/0	Buonanno, Andres		Medimmune, Inc.	12-Sep-18						
+L-293-14/0	Karavanov, Alex A. or Irina		Medimmune, Inc.	12-Sep-18						

\$116,522.82	\$44,139.36	\$160,662.18	\$23,170.30	\$137,491.88
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* denotes an adjustment to fix a problem from a previous month
 + denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDA
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-070-03/2	NIDA		Brainsway, Inc.	23-Apr-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-070-03/2 split between NIDA; NINDS</i>										
+L-070-03/2	Wise, Roy A	(b)(4);	Brainsway, Inc.	23-Apr-18						
+L-070-03/2	Zangen, Abraham	(b)(6)	Brainsway, Inc.	23-Apr-18						
<i>Note: L-070-03/2 split between NIDA; NINDS</i>										
+L-256-16/0	Backman, Christina M		Circuit Therapeutics, Inc	26-Apr-18						
+L-256-16/0	Tomac, Andreas C		Circuit Therapeutics, Inc	26-Apr-18						

NIH Patent Licensing Activities
NIDA
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NIDA
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NIDA
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-162-16/3	Rice, Kenner C.	(b)(4); (b)	Inversago	18-Jul-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-162-16/3 split between NIAAA; NIDA</i>										

NIH Patent Licensing Activities
NIDA
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-162-16/3	Rice, Kenner C.	(b)(4);	Inversago	9-Aug-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-162-16/3 split between NIAAA; NIDA</i>										
+L-162-16/3	Rice, Kenner C.	(b)(6)	Inversago	9-Aug-18						
<i>Note: L-162-16/3 split between NIAAA; NIDA</i>										

NIH Patent Licensing Activities

NIDA

September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$44,088.32	\$0.00	\$44,088.32		\$11,397.08	\$32,691.24

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDCD
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-078-18/0	Chen, Zhong	(b)(4);	miRecule	6-Apr-18						(b) (3) (A), (b) (4), (b) (6)
+L-078-18/0	Cheng, Hui	(b)(6)	miRecule	6-Apr-18						
+L-078-18/0	Saleh, Anthony		miRecule	6-Apr-18						
+L-078-18/0	Van Waes, Carter		miRecule	6-Apr-18						
+L-084-10/0	Drayna, Dennis T.		Senomyx Inc	26-Apr-18						
+L-084-10/0	Kim, Un-kyung		Senomyx Inc	26-Apr-18						
+L-084-10/0	(b) (4)		Senomyx Inc	26-Apr-18						

NIH Patent Licensing Activities
NIDCD
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCD
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-111-06/0	Selbie, W. Scott	(b)(4); (b)	ICAD Inc	26-Jun-18						(b) (3) (A), (b) (4), (b) (6)

Note: L-111-06/0 split between CC; CIT; NIDCD

NIH Patent Licensing Activities
NIDCD
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCD
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-214-92/8	RJ Wenthold	(b) (6)	(b)(4); (b)	EMD Chemicals	1-Aug-18					(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIDCD
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$47,010.63	\$0.00	\$47,010.63		\$11,387.82	\$35,622.81

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDCR
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-115-00/2	Leplla, Stephen H.	(b)(4);	List Biological Laboratories, Inc.	4-Apr-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-115-00/2 split between NIAID; NIDCR</i>										
+L-142-12/1	NIDCR		Odin Biotech, LLC	5-Apr-18						
<i>Note: L-142-12/1 split between NEI; NIDCR</i>										
+L-032-11/1	NIDCR		Sorrento Therapeutics, Inc	12-Apr-18						
+L-076-08/0	NIDCR		Emergent Product Development Gaithersbur	25-Apr-18						
<i>Note: L-076-08/0 split between NICHD; NIDCR; NIDDK</i>										

NIH Patent Licensing Activities
NIDCR
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-152-17/0	Akiyama, Steven	(b)(4);	EMD Millipore Corporation	17-May-18						(b) (3) (A), (b) (4), (b) (6)
+L-152-17/0	Yamada, Kenneth	(b)(6)	EMD Millipore Corporation	17-May-18						
+L-152-17/0	Yamada, Susan Sleeper		EMD Millipore Corporation	17-May-18						
+L-135-13/0	NIDCR		Biologics	22-May-18						
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>										
+L-153-07/1	Fisher, Larry	(b)(4); (b)(6)	Santa Cruz Biotech., Inc.	30-May-18						
+L-153-07/1	Fisher, Larry		Santa Cruz Biotech., Inc.	30-May-18						

NIH Patent Licensing Activities
NIDCR
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCR
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-103-04/0	Keith, Jerry M	(b)(4); (b)(6)	Bharat Biotech Inter.	5-Jul-18						(b) (3) (A), (b) (4), (b) (6)
+L-103-04/0	Merkel, Todd J.		Bharat Biotech Inter.	5-Jul-18						

(b) (3) (A), (b) (4), (b) (6)

+L-103-04/0 Yang, Xiaoming (b)(4); Bharat Biotech Inter. 5-Jul-18
 (b)(6)
 +L-066-05/1 Siraganian, Reuben President and Fellows of Harvard College 17-Jul-18
 Note: L-066-05/1 split between NIAMS; NIDCR

NIH Patent Licensing Activities
NIDCR
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-171-08/1	Siraganian, Reuben	(b)(4); (b)(6)	BD Biosciences	1-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-152-17/0	Akiyama, Steven		EMD Millipore Corporation	1-Aug-18						
+L-152-17/0	Yamada, Kenneth		EMD Millipore Corporation	1-Aug-18						
+L-152-17/0	Yamada, Susan Sleeper		EMD Millipore Corporation	1-Aug-18						
+L-078-15/0	Chiorini, John A.		Spark Therapeutics, Inc.	7-Aug-18						
+L-078-15/0	Kaludov, Nikola		Spark Therapeutics, Inc.	7-Aug-18						
+L-116-11/3	Chiorini, John A.		uniQure B.V.	14-Aug-18						
Note: L-116-11/3 split between NHLBI; NIDCR										
+L-088-12/0	NIDCR		Sangamo BioSciences Inc	14-Aug-18						
Note: L-088-12/0 split between NHLBI; NIDCR										
+L-115-00/2	Leppa, Stephen H.	(b)(4); (b)(6)	List Biological Laboratories, Inc.	22-Aug-18						
Note: L-115-00/2 split between NIAID; NIDCR										
+L-343-01/0	Keith, Jerry M		List Biological Laboratories, Inc.	22-Aug-18						
+L-343-01/0	Merkel, Todd J.		List Biological Laboratories, Inc.	22-Aug-18						
+L-343-01/0	Yang, Xiaoming		List Biological Laboratories, Inc.	22-Aug-18						

NIH Patent Licensing Activities
NIDCR
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$83,787.49	\$1,990.00	\$85,777.49		\$22,187.49	\$63,590.00

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDDK
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-093-18/0	Star, Robert A.	(b)(4); (b)(6)	ledImmune	6-Apr-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-093-18/0 split between NCI; NIDDK</i>										
+L-076-08/0	NIDDK		Emergent Product Development Gaithersbur	25-Apr-18						
<i>Note: L-076-08/0 split between NICHD; NIDCR; NIDDK</i>										
+L-172-08/1	Afione-Wainer, Sandra	(b)(4);	Johns Hopkins University	27-Apr-18						
+L-172-08/1	Carter, Barrie J.	(b)(6)	Johns Hopkins University	27-Apr-18						
+L-172-08/1	Flotte, Terence R		Johns Hopkins University	27-Apr-18						
+L-172-08/1	Solow, Renee		Johns Hopkins University	27-Apr-18						

NIH Patent Licensing Activities
NIDDK
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-135-13/0	NIDDK		Biologics	22-May-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>										
+L-204-99/1	Jacobson, Kenneth A	(b)(4); (b)(6)	niversity of Virginia Patent Found.	24-May-18						

NIH Patent Licensing Activities
NIDDK
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-240-17/0	Schechter, Alan N.	(b)(4);	United Therapeutics Corporation	7-Jun-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS</i>										
+L-047-18/0	Proia, Richard L	(b)(4);	Recursion	22-Jun-18						
+L-047-18/0	Proia, Richard L	(b)(6)	Recursion	22-Jun-18						
+L-047-18/0	Proia, Richard L		Recursion	22-Jun-18						

NIH Patent Licensing Activities
NIDDK
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-010-02/1	Sauer, Brian	(b)(4); (b)(6)	Sigma-Aldrich	1-Jul-18						(b) (3) (A), (b) (4), (b) (6)
+L-044-09/0	Gao, Zhan-Guo		Leiden University	3-Jul-18						
+L-044-09/0	Jacobson, Kenneth A		Leiden University	3-Jul-18						
+L-208-15/0	NIDDK		Virotas Biopharmaceuticals, LLC	17-Jul-18						

Note: L-208-15/0 split between NCATS; NIDDK

NIH Patent Licensing Activities
NIDDK
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-173-15/2	Ge, Kai	(b)(4); (b)(6)	Millipore Sigma	23-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-173-15/2	Lee, Ji-Eun		Millipore Sigma	23-Aug-18						
+L-075-17/0	NIDDK		BioIntervene Inc.	29-Aug-18						

NIH Patent Licensing Activities
NIDDK
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$27,880.00	\$48,915.02	\$76,795.02		\$10,278.95	\$66,516.07

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIEHS
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-036-15/1	Copeland, William	(b)(4);	Alnylam Pharmaceuticals, Inc.	3-Apr-18						(b) (3) (A), (b) (4), (b) (6)
+L-036-15/1	Kasiviswanathan, Rajesh	(b)(6)	Alnylam Pharmaceuticals, Inc.	3-Apr-18						
+L-036-15/1	Lim, Susan E.		Alnylam Pharmaceuticals, Inc.	3-Apr-18						
+L-052-13/0	Baek, Seung Joon		Amgen, Inc.	24-Apr-18						

NIH Patent Licensing Activities
NIEHS
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-063-93/1	Eddy, Edward	(b)(4); (b)(6)	Affinity BioReagents	29-Mar-17						(b) (3) (A), (b) (4), (b) (6)
+L-063-93/1	Eddy, Edward		Affinity BioReagents	21-Sep-17						
+L-036-15/2	Copeland, William		Alnylam Pharmaceuticals	8-May-18						
+L-036-15/2	Kasiviswanathan, Rajesh		Alnylam Pharmaceuticals	8-May-18						
+L-036-15/2	Lim, Susan E.		Alnylam Pharmaceuticals	8-May-18						
+L-144-04/3	Ehrenshaft, Marilyn I		Cayman Chemical Company	23-May-18						
+L-144-04/3	Mason, Ronald P.		Cayman Chemical Company	23-May-18						

NIH Patent Licensing Activities
NIEHS
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
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					\$20,565.10	\$0.00	\$20,565.10		\$10,790.10	\$9,775.00
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIMH
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-213-94/1	Mahan, Lawrence C.		Eurofins Panlabs	23-Apr-18						

Note: L-213-94/1 split between NIMH; NINDS

NIH Patent Licensing Activities
NIMH
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-091-18/0	Drevets, Wayne C	(b)(4);	Defender Pharmaceuticals	1-May-18						
+L-091-18/0	Furey, Maura L.	(b)(6)	Defender Pharmaceuticals	1-May-18						
+L-261-16/0	Eiden, Maribeth V.		Fred Hutchinson Cancer Research Center	11-May-18						
+L-261-16/0	Wilson, Carolyn A.		Fred Hutchinson Cancer Research Center	11-May-18						
+L-064-10/1	NIMH		Angimmune LLC	29-May-18						

NIH Patent Licensing Activities
NIMH
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-088-17/0	Ye, Daniel	(b)(6)	Eli Lilly and Company	5-Jun-18						
+L-302-14/0	Axelrod, (b) (6) Julius		KannaLife Sciences, Inc.	27-Jun-18						
+L-302-14/0	Hampson, Aidan J.		KannaLife Sciences, Inc.	27-Jun-18						

Note: L-302-14/0 split between NIMH; NINDS

+L-113-12/0	Axelrod, (b) (6) Julius		KannaLife Sciences, Inc	27-Jun-18						
+L-113-12/0	Hampson, Aidan J.		KannaLife Sciences, Inc	27-Jun-18						

Note: L-113-12/0 split between NIMH; NINDS

NIH Patent Licensing Activities
NIMH
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License	Inventor Awards July	Net Remaining to IC
								Cumulative Income		
+L-050-11/1	Dold, George R.	(b)(4);	Passy-Muir	9-Jul-18					(b) (3) (A), (b) (4), (b) (6)	
+L-050-11/1	Morgan, Newlin T.	(b)(6)	Passy-Muir	9-Jul-18						

Note: L-050-11/1 split between NIMH; NINDS

NIH Patent Licensing Activities

NIMH

August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License	Inventor Awards August	Net Remaining to IC
								Cumulative Income		
+L-236-18/0	Ginns, Edward I.	(b)(4);	Idorsia Pharmaceuticals	17-Aug-18					(b) (3) (A), (b) (4), (b) (6)	
+L-236-18/0	LaMarca, Mary	(b)(6)	Idorsia Pharmaceuticals	17-Aug-18						
+L-236-18/0	Ginns, Edward I.		Idorsia Pharmaceuticals	17-Aug-18						
+L-236-18/0	LaMarca, Mary		Idorsia Pharmaceuticals	17-Aug-18						

NIH Patent Licensing Activities

NIMH

September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License	Inventor Awards September	Net Remaining to IC
								Cumulative Income		
+L-025-17/1	Zarate, Carlos A.	(b)(4);	Tocris Bioscience	12-Sep-18					(b) (3) (A), (b) (4), (b) (6)	

Note: L-025-17/1 split between NCATS; NIA; NIMH

\$108,052.71	\$105,949.31	\$214,002.02	\$24,312.78	\$189,689.24
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NINDS
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-181-04/2	Hou, Jean	(b)(4);	Immuquest Ltd	9-Apr-18						(b) (3) (A), (b) (4), (b) (6)
+L-181-04/2	Major, Eugene O	(b)(6)	Immuquest Ltd	9-Apr-18						
+L-181-04/2	Messam, Conrad A		Immuquest Ltd	9-Apr-18						
+L-214-94/0	Brann, (b) (6) Mark R		Panlabs, Inc.	23-Apr-18						
+L-214-94/0	Stormann, Thomas M.		Panlabs, Inc.	23-Apr-18						
+L-213-94/1	McVittie, Loris D.		Eurofins Panlabs	23-Apr-18						
+L-213-94/1	Monsma, Jr., Frederick J.		Eurofins Panlabs	23-Apr-18						
+L-213-94/1	Sibley, David R.		Eurofins Panlabs	23-Apr-18						
<i>Note: L-213-94/1 split between NIMH; NINDS</i>										
+L-070-03/2	NINDS		Brainsway, Inc.	23-Apr-18						
<i>Note: L-070-03/2 split between NIDA; NINDS</i>										
+L-070-03/2	Hallett, Mark	(b)(4);	Brainsway, Inc.	23-Apr-18						
+L-070-03/2	Miranda, Pedro	(b)(6)	Brainsway, Inc.	23-Apr-18						
+L-070-03/2	Roth, Yiftach		Brainsway, Inc.	23-Apr-18						
<i>Note: L-070-03/2 split between NIDA; NINDS</i>										
+L-079-17/0	NINDS		VuEssence, Inc.	26-Apr-18						
<i>Note: L-079-17/0 split between NIA; NINDS; NINR</i>										

NIH Patent Licensing Activities
NINDS
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-031-04/1	Hou, Jean	(b)(4);	Santa Cruz Biotechnology	30-May-18						(b) (3) (A), (b) (4), (b) (6)
+L-031-04/1	Major, Eugene O	(b)(6)	Santa Cruz Biotechnology	30-May-18						
+L-031-04/1	Messam, Conrad A		Santa Cruz Biotechnology	30-May-18						
+L-031-04/1	Hou, Jean		Santa Cruz Biotechnology	30-May-18						
+L-031-04/1	Major, Eugene O		Santa Cruz Biotechnology	30-May-18						
+L-031-04/1	Messam, Conrad A		Santa Cruz Biotechnology	30-May-18						
+L-123-04/2	Hsu, Yite		Santa Cruz Biotechnology Inc	30-May-18						
+L-123-04/2	Youle, Richard J.		Santa Cruz Biotechnology Inc	30-May-18						
+L-123-04/2	Hsu, Yite		Santa Cruz Biotechnology Inc	30-May-18						
+L-123-04/2	Youle, Richard J.		Santa Cruz Biotechnology Inc	30-May-18						
+L-077-08/1	Hsu, Yite		Santa Cruz Biotechnology Inc	30-May-18						
+L-077-08/1	Youle, Richard J.		Santa Cruz Biotechnology Inc	30-May-18						

NIH Patent Licensing Activities
NINDS
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC	
+L-083-11/0	Bielekova, Bibiana B	(b)(4);	Abbott Biotherapeutics Corp.	1-Jun-18						(b) (3) (A), (b) (4), (b) (6)	
+L-083-11/0	Martin, Roland	(b)(6)	Abbott Biotherapeutics Corp.	1-Jun-18							
+L-083-11/0	McFarland, Henry F.		Abbott Biotherapeutics Corp.	1-Jun-18							
<i>Note: L-083-11/0 split between NCI; NINDS</i>											
+L-240-17/0	Oldfield, (b) (6) Edward H.		United Therapeutics Corporation	7-Jun-18							
+L-240-17/0	Pluta, Ryszard M		United Therapeutics Corporation	7-Jun-18							
<i>Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS</i>											
+L-185-04/1	Hou, Jean	(b)(4);	Mubio Products BV	7-Jun-18							
+L-185-04/1	Major, Eugene O	(b)(6)	Mubio Products BV	7-Jun-18							
+L-185-04/1	Messam, Conrad A		Mubio Products BV	7-Jun-18							
+L-181-04/2	Hou, Jean		mmuquest Ltd	18-Jun-18							
+L-181-04/2	Major, Eugene O		mmuquest Ltd	18-Jun-18							
+L-181-04/2	Messam, Conrad A		mmuquest Ltd	18-Jun-18							
+L-280-14/1	NINDS		Arche Opitex Biomedical, Inc.	20-Jun-18							
<i>Note: L-280-14/1 split between NICHD; NINDS</i>											
*+L-280-14/1	Amyot, Franck	(b)(4);	Arche Opitex Biomedical, Inc.	20-Jun-18							
*+L-280-14/1	Wasserman, Eric M.	(b)(6)	Arche Opitex Biomedical, Inc.	20-Jun-18							
<i>Note: L-280-14/1 split between NICHD; NINDS</i>											
+L-302-14/0	Grimaldi, Maurizio		KannaLife Sciences, Inc.	27-Jun-18							
<i>Note: L-302-14/0 split between NIMH; NINDS</i>											
+L-113-12/0	Grimaldi, Maurizio		KannaLife Sciences, Inc	27-Jun-18							
<i>Note: L-113-12/0 split between NIMH; NINDS</i>											

NIH Patent Licensing Activities
NINDS
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-087-99/1	Hsu, Yite	(b)(4);	Sigma Israel Chemicals, LTD	1-Jul-18						(b) (3) (A), (b) (4), (b) (6)
+L-087-99/1	Youle, Richard J.	(b)(6)	Sigma Israel Chemicals, LTD	1-Jul-18						
+L-050-11/1	Humbert, Ianessa A		Passy-Muir	9-Jul-18						
+L-050-11/1	Lowell, Soren Y		Passy-Muir	9-Jul-18						
+L-050-11/1	Ludlow, Christy L.		Passy-Muir	9-Jul-18						
+L-050-11/1	Poletto, Christopher J.		Passy-Muir	9-Jul-18						

Note: L-050-11/1 split between NIMH; NINDS

+L-130-02/1	Hsu, Yite	(b)(4);	Santa Cruz Biotechnology Inc	20-Jul-18
+L-130-02/1	Youle, Richard J.	(b)(6)	Santa Cruz Biotechnology Inc	20-Jul-18
+L-130-02/1	Hsu, Yite		Santa Cruz Biotechnology Inc	20-Jul-18
+L-130-02/1	Youle, Richard J.		Santa Cruz Biotechnology Inc	20-Jul-18
+L-144-18/0	NINDS		Carl Zeiss	25-Jul-18

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NINDS
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-025-02/0	Schwartz, Joan P	(b)(4);	Chemicon International Inc	1-Aug-18						(b) (3) (A), (b) (4), (b) (6)
+L-025-02/0	Sugita, Yukihiro	(b)(6)	Chemicon International Inc	1-Aug-18						
+L-025-02/0	Taniwaki, Takayuki		Chemicon International Inc	1-Aug-18						
<i>Note: L-025-02/0 split between NEI; NINDS</i>										
+L-025-02/0	NINDS		Chemicon International Inc	1-Aug-18						
<i>Note: L-025-02/0 split between NEI; NINDS</i>										
+L-170-17/0	NINDS		AestasRx	14-Aug-18						
+L-083-11/0	Bielekova, Bibiana B	(b)(4);	Abbott Biotherapeutics Corp.	28-Aug-18						
+L-083-11/0	Martin, Roland	(b)(6)	Abbott Biotherapeutics Corp.	28-Aug-18						
+L-083-11/0	McFarland, Henry F.		Abbott Biotherapeutics Corp.	28-Aug-18						
<i>Note: L-083-11/0 split between NCI; NINDS</i>										

NIH Patent Licensing Activities
NINDS
September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$245,078.86	\$38,020.83	\$283,099.69		\$69,654.71	\$213,444.98

* denotes an adjustment to fix a problem from a previous month

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NINR
April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-079-17/0	NINR		VuEssence, Inc.	26-Apr-18						(b) (3) (A), (b) (4)

Note: L-079-17/0 split between NIA; NINDS; NINR

NIH Patent Licensing Activities
NINR
May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
NINR

September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
										(b) (3) (A), (b) (4)

NIH Patent Licensing Activities
 NLM
 April 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
 NLM
 May 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
 NLM
 June 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
 NLM
 July 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
 NLM
 August 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
 NLM
 September 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-010-18/0	Lu, Zhiyong	(b)(4);	Ping An Technology (Shenzen) Company LTD	11-Sep-18						(b) (3) (A), (b) (4), (b) (6)
+L-010-18/0	Pang, Yifan	(b)(6)	Ping An Technology (Shenzen) Company LTD	11-Sep-18						
<i>Note: L-010-18/0 split between CC; NLM</i>										
+L-010-18/0	Lu, Zhiyong	(b)(4);	Ping An Technology (Shenzen) Company LTD	11-Sep-18						

+L-010-18/0 Pang, Yifan (b)(4); (b)(6) Ping An Technology (Shenzen) Company LTD
Note: L-010-18/0 split between CC; NLM

11-Sep-18

+L-010-18/0 NLM Ping An Technology (Shenzen) Company LTD
Note: L-010-18/0 split between CC; NLM

11-Sep-18

+ denotes a manual adjustment which has already been paid to the inventor

(b) (3) (A), (b) (4), (b) (6)

National Institutes of Health

Office of Financial Management

Royalties Semiannual Report -- Payments due to Inventors by IC -- Period ending: March 2019

CC	\$16,856.09
Burnett, Christopher A.	(b) (3) (A), (b) (4), (b) (6)
Danthi, S. Narasimhan	
Franaszek, Marek	
Gladwin, Mark T.	
Huang, Hui-Yang	
Iordanescu, Gheorghe	
Jerebko, Anna K	
Jin, Jianjian	
Kwak, Jin Tae	
Lay, Nathan Stephan	
LeBihan, Denis	
Li, King	
(b) (4)	
Reinhard Roth, Holger	
Rosenzweig, Sergio	
Roy, David	
Sabatino, Marianna V.	
Stroncek, David F.	
Summers, Ronald	
Tsehay, Yohannes Kebede	
Wood, Bradford J	
Xu, Sheng	
Yao, Jianhua	
CDC	\$357,449.30
Ades, Edwin W.	(b) (3) (A), (b) (4), (b) (6)
Alisio, Carol H.	
Aloisio, Carol H.	
Amador, Manuel	
Anderson, Larry J.	

Anderson, Raydel
Ashley, Kevin E.
Bagarozzi, Dennis Anthony
Barrera, Roberto
Beall, David S.
Beck, Eric T.
Bellini, William J.
Benitez, Alvaro J.
Berman, LaShondra
Birkness, Kristin A.
Bishop, Henry
Black, Charlotte M.
Boeniger, Mark F.
Boyer, Anne E.
Burns, Cara C.
Campagnoli, Raymond
Carlone, George M.
Carvalho, Maria Da Gloria
Castro, Arnold R.
Chang, Gwong-Jen J.
Collins, Carlyn
Cox, Nancy J.
Cromeans, Theresa
Damon, Inger K.
Davis, Brent S.
Deslauries, Manon
Devos, Joshua R.
Diaz, Maureen
Dolan, Marc C.
Donis, Ruben O.
Donlan, Rodney M.
Emery, Shannon L.
Erdman, Dean D.
Esposito, Joseph J.

(b) (3) (A), (b) (4), (b)
(6)

Esswein, Eric J.
Fields, Howard A.
Fields, Patricia
Folks, Thomas M
Freeman, Charlotte
Gagnon, MariBeth
Galland, Gale G.
Garcia Lerma, Jose Gerardo
Garcia-Lerma, J. Geraldo
Gentsch, Jon R.
George, Robert W.
Glass, Roger I.
Goldstein, Jason Marc
Granade, Timothy C.
Guo, Zhu
Hanlon, Cathleen
Harmon, Maurice
Hatcher, Cynthia P.
Heneine, Walid M.
Hierholzer, John C.
Hill, Vincent R.
Hummer, Jon
Janssen, Robert
Jiang, Baoming
Katz, Jacqueline M.
Kendal, Alan P.
Kennedy, Eugene R.
Kew, Olen M.
Khudyakov, Yury E
King, Peter
Kinney, Claire Huang
Kinney, Richard M.
Kirby, Wayne
Klimov, Alexander I.

(b) (3) (A), (b) (4),
(b) (6)

Kulkarni, Pramod
Lange, James V.
Leaumont, Collette F.
Lee, Tommy
Lewis, Daniel M.
Lindstrom, Stephen
Loftin, Lamorris
Lu, Xiaoyan
Mackay, Andrew J.
Maher, Kaija
Mark W. Reimer (b) (6)
Maupin, Gary O.
Mayer, Leonard W.
McDougal, Steve
McGee, Lesley
McQuiston, John R.
Moore, Deborah D.
Morrill, William E.
Munoz-Jordon, Jorge L
Murga, Ricardo
Murphy, William J.
Narayanan, Jothikumar
O'Connor, Steven
Otten, Ronald
Pallansch, Mark A.
Parekh, Bharat S.
Pau, Chou-Pong
Phillips, Donald
Pope, Victoria
Qi, Chaolong
Quay, Jacqueline
Quinn, Conrad P.
Quinn, Frederick D.
Raudabaugh, William M.

(b) (3) (A), (b) (4),
(b) (6)

Reid, Thomas M.
Reimer, Charles B.
Robertson, Shirley
Roehrig, John T.
Rupprecht, Charles E.
Russell, Harold
Saluzzo, Jean-francious
Sammons, Deborah L.
Sampson, Jacquelyn S.
Sanchez, Anthony
Santiago, Gilberto
Schafer, Millie P.
Schmechel, Detlef
Shaw, Jing
Shu, Bo
Smith, Jerome P.
Snawder, John E.
Snyder, Jay L.
Sparks, Kansas
Stephenson, Mark R.
Stevens, James
Stockdale, Carol
Striley, Cynthia A.
Summer, John
Tatti, Kathleen M.
Taylor, Roger
Tharpe, Jean A.
Theodore, Mary J.
Thibodeaux, Brett A.
Thomas, Jennifer D.
Tondella, Maria-Lucia
Tripp, Ralph A.
Tsou, Cecelia
Tuchman, Donald P.

(b) (3) (A), (b) (4), (b)
(6)

(b) (4)

Vergne, Edgardo
Vinje, Jan
Volkwein, Jon C.
Wagar, Nicholas
Walls, Harriet
Wang, Xin
Wang, Yuhuan
Wells, Thomas
Wilson, Jason Ray
Winchell, Jonas M.
Wolff, Bernard
Wood, Gerry O.
Wu, Xianfu
Yang, Chunfu (Dustin)
York, Ian Arthur
Zhou, Zhiyong

(b) (3) (A), (b) (4),
(b) (6)

[Redacted]

CIT

\$2,001.99

Cheng, Ruida
Malley, James
McAuliffe, Matthew
Pohida, Thomas J.
Wagner, Lynne M

(b) (3) (A), (b)
(4), (b) (6)

[Redacted]

FDA

\$23,291.14

Donnelly, Raymond P.
Falgout, Barry
Markoff, Lewis
Petricoin, Emanuel

(b) (3) (A), (b) (4),
(b) (6)

[Redacted]

NCATS

\$13,000.00

Auld, Douglas S.
Austin, Christopher P.
Boxer, Matthew
Chen, Catherine
Cheng, Chih-Chien (Ken)

(b) (3) (A), (b)
(4), (b) (6)

[Redacted]

Hasson, Samuel A.
Inglese, James
Jang, Sung-Wook
Jiang, Jian-kang
Marugan, Juan J.
Patnaik, Samarjit
Shen, Min
Skoumbourdis, Amanda P.
Southall, Noel T.
Svaren, John
Thomas, Craig J.
Zheng, Wei

(b) (3) (A), (b) (4),
(b) (6)

NCI

\$15,120,758.73

Aaronson, Stuart A.
Adachi, Yoshifumi
Alimandi, Maurizio
Allegra, Carmen

(b) (3) (A), (b) (4),
(b) (6)

(b) (4)

Antony, Paul A.
Aplan, Peter D.
Austin, Faye C.
Azimi, Nazli
Bagni- Beyer, Rachel K.
Bang, Sook-Hee
Barrett, J Carl
Barry, Todd
Bartlett, David L
Baskar, Sivasubramanian
Beers, Richard
Bera, Tapan K
Bergamaschi, Cristina
Bernardo, Marcelino L.
Bluestone, Jeffrey A
Bonner, William M

Bonomi, Carrie A.
Borgel, Suzanne D.

(b) (4)

Boyd, Michael R.
Brash, Douglas
Brinkmann, Ulrich
Broadt, Trevor L.
Buck, Christopher
Burgess, Rebecca C.
Bustin, Michael
Caplen, Natasha

(b) (4)

Chabner, Bruce A
Chackerian, Bryce
Chang, Kai
Chang, Nancy T.
Chen, Weizao
Cheng, Sheue-Yann
Chowdhury, Partha S
Choyke, Peter L
Chuaqui, Rodrigo
Chung, Jae Wook
Chung-YIn Yang, James
Cohen, Cyrille J.
Colcher, David
Conrads, Thomas P
Copeland, Neal
Copeland, Terry D.
Costantino, Nina
Court, Donald
Crowl, Robert
Custer, Mary
Datta, Simanti

(b) (3) (A), (b) (4), (b)
(6)

Day, Chi-Ping
Dimitrov, Dimiter S.
Doroshov, James H.
Dougherty, Kelly
Dubois, Sigrid
Dudley, Mark
Eberle, Jaime A
Ellis, Hilary Moyed
Emmert-Buck, Michael R.
Erickson, John W.
Esposito, Dominic
Essand, Lars Magnus
(b) (6) Donald J. Giard
Felber, Barbara
Felber, Barbara K.
Feng, Mingqian
Feng, Yang
Finch, Paul W.
Fisher, Amanda G.
Fitzgerald, David J.
Fowler, Daniel
Franchini, Genoveffa
Fry, Terry
Gallo, Robert C.
Gao, Wei
Gartner, Suzanne
Gazdar, Adi F.
Gelboin, (b) (6) Harry
(b) (4)
Gerwin, Brenda I.
Giard, Donald
Gillette, William K.
Goldman, Carolyn
Gonzalez, Frank J

(b) (3) (A), (b) (4),
(b) (6)

Gopal, Bandi
Gottesman, Michael M.
Greenstone, Heather L.
Greer, Matthew D.
Greiner, John W.
Gress, Ronald E.
Gros, Alena
Grose, Carissa L.
Gulnik, Sergei V.
Gupta, Shanker Lal
Hahn, Beatrice
Hamilton, Thomas C
Hanada, Kenichi
Hand, Patricia H
Harris, Curtis C.
Hassan, Raffit
Hathcock, Karen
He, Xi
Hinrichs, Christian S.
Ho, Mitchell
Hodes, Richard
Hodge, James W.
Holderfield, Matthew T.
Hollingshead, Melinda G.
Hopkins, Ralph F.
Horie, Kyoji
Howley, Peter M.
Hurwitz, Arthur A.
Hwu, Patrick
Irvine, Kari R.
Ise, Tomoko
Issaq, Haleem J.
Jainchill, John L.

(b) (3) (A), (b) (4), (b)

(6)

(b) (4)

(b) (3) (A), (b) (4), (b) (6)

Janini, George
Jelinek, Ivett
Jenkins Copeland, Nancy A
Jessup, John M.
Ji, Qingyong
Jiang, Guojian
(b) (4)
Johnson, Bruce E
Johnston, Patrick G.
Jung, Sun-Hee
Kalyanaraman, Vaniambadi S.
Kawakami, Yutaka
Kaye, Frederic J
Kheif, Samir N.
Khleif, Samir N.
Kinders, Robert
King, Charles R.
Kirnbauer, Reinhard
Kobayashi, Hisataka
Kochenderfer, James N
Korokhov, Nikolay
Kraus, (b) (6) Matthias
Krausz, Kristopher W.
Kreitman, Robert J
Kuan, Chien-Tsun
Lacal, Juan C.
Landry, Joseph W.
Lantz, Valerie A
Lapointe, Rejean
Laszlo, Gloria
Lee, Byungkook
Lee, Choonsik
Lee, E-Chiang
Lee, Susanna Sau-Tuen

Leo, Oberdan
Liang, Chi-Ming
Lin, Ying-Wei
Linehan, Marston
Liotta, Lance
Liu, Pentao
Liu, Wenhai
Lorenzi, Philipp
Lori, Franco C.
Lowy, Douglas R.
Lusso, Paolo
Mackall, Crystal L
Makrigiannis, Andrew P.
Mansfield, Elizabeth
Mariner Kilbourne, Jennifer
Markham, Phillip D.
Marrero, Allison M.
Mason, Llewellyn H.
Mazor, Ronit
McCart, Judith Andrea
McMahon, James
Mehta, Arpita I
Merlino, Glenn T.
Mertan, Francesca
Michie, Megan Suzanne
Minna, John D.
Misteli, Thomas
Mitra, Guatam (George)
Mitsunaga, Makoto
Mitsuya, Hiroaki
Morgan, Richard A.
Muchmore, Brian P.
Nagata, Satoshi
Nutti, Marianna

(b) (3) (A), (b) (4), (b) (6)

O'Brien, Thomas R
O'Keefe, Barry
Oie, Herbert K
Onda, Masanori
Orentas, Rimas J.
Ortaldo, John R.
Ozols, Robert F
Parchment, Ralph E.
Parkhurst, Maria
Parks, Wade P
Pass, Harvey I.
Pastan, Ira H
Pastrana, Diana V
Pavlakis, George N
Pfister, Thomas D.
Phung, Yen T.
Pierce, Jacalyn
Pinto, Peter A
Ponraj, Prabakaran
Popovic, Mikulas
Porter-Gill, Patricia A.
Potter, (b) (6) Michael
Prokunina-Olsson, Ludmila
Qasba, Pradman
Qin, Haiying
Rader, Christoph
Ramakrishnan, Boopathy
Reddel, Roger R.
Reddy, E. Premkumar.
Reitz, Jr., Marvin S.
Restifo, Nicholas P.
Reynolds, Della Anne
Rhim, Johng S.
Risinger, John

(b) (3) (A), (b) (4), (b) (6)

Robbins, Paul F
Roberts, (b) (6) Anita
Roberts, Veronica Ann
Roden, Richard B
Rogakou, Efthimia P
Roop, Dennis R.
Rosati, Margherita
Rosenberg, Steven A.
Rosenwald, Andreas
Roukos, Vasileios
Roy, Krishnendu K.
Rubin, Jeffrey S
Salahuddin, Syed Z.
Salvatore, Giuliana
Sarngadharan, Mangalasseril
Sausville, Edward
Schiller, John T
Schlom, Jeffrey
Schnermann, Martin
Segal, David M.
Shaban, Samir H.
Sharan, Shyam K
Sharan, Shyam K.
Shaw, George M
Simone, Nicole L
Singh, Vinod
Slape, Christopher I.
Snader, Kenneth M
Somerville, Robert P.
Sonalee Gaur, Sonia
Soppet, Dan
Soutoglou, Evi
Specht, Suzanne I.
Spiese, Paul J

(b) (3) (A), (b) (4),
(b) (6)

(b) (3) (A), (b) (4), (b) (6)

Sporn, Michael B.
Staudt, Louis M
Steeg, Patricia S.
Steinert, (b) (6) Peter M.
Stephens, Robert M.
Swaminathan, Srividya
Tang, Zhewei
Tangrea, Michael
Todaro, George J.
Topalian, Suzanne L.
Toshiyuki, Mori
Tsang, Kwong-Yok
Turkbey, Ismail B.
Ueda, Kazumitsu

(b) (4)

(b) (4)

(b) (4)

Uren, Aykut
Valentin, Antonio
Vasmatzis, George
Vassall, Aaron
Veenstra, Timothy D
Vishnuvajjala, B. Rao
Vos, Michele
Waldmann, Thomas A.
Wang, Ling-Mei
Wang, Rong-fu
Wang, Xiaohong
Wang, Yan
Warming, Soren
Waugh, David
Weinstein, John N.
Weldon, John
Wiestner, Adrian

Wilkens, Kenneth L.
Willingham, Mark C.
Wilson, Wyndham H.
Wolff, Linda
Wolfgang, Curt
Wong-Staal, Flossie
Wu, Carl
Wu, Yongzhong
Wunderlich, John
Xiao, Xiaodong
Xie, yueqing
Xu, Junfen
Yamashita, Motozo
Yang, James C
Yang, Ke
Yang, Tian J.
Yang, Youfeng
Yongzu Jin, Benjamin
Yoshimura, Teizo
Young, Howard A.
Yu, Daiguan
Yu, Zhiya
Yuspa, Stuart H.
Zaharoff, David
Zhang, Jingyu
Zhang, Yifan
Zhang, Ying E.
Zhang, ZhenHua
Zheng, Zhi-Min g (Thomas)
Zhu, Jianwei
Zhu, Zhongyu
Zhu, Ziqiang
NEI
Amaral, Juan A

(b) (3) (A), (b) (4), (b)
(6)

\$608,174.83

(b) (3) (A), (b) (4),
(b) (6)

Becerra, Sofia P
Bharti, Kapil
Bunce, George E.
Chader, Gerald J
Charles, Steven Thomas
Csaky, Karl G
Ferris III, Frederick L.
Khristov, Vladimir R.
Kinoshita, (b) (6) Jin H
Li, Tiansen
Maminishkis, Arvydas
Ponce, Lourdes
Quinn, Russell L
Rodriguez, Ignacio R
Smith, James Cecil
Song, Min Jae
Steele, Fintan R.
Swaroop, Anand
Tombran-Tink, Joyce
(b) (4)

(b) (3) (A), (b) (4), (b) (6)

NHGRI

\$56,976.25

Adams, David R
Auld, Douglas S.
Boxer, Matthew
Chandler, Randy J.
Gahl, William A.
Gispert-Sanchez, Suzana
Goldin, Ehud M.
Inglese, James
Jiang, Jian-kang
Kallioniemi, Olli P
Kononen, Juha
Leighton, Stephen
Manoli, Eirini

(b) (3) (A), (b) (4), (b) (6)

Manoli, Irini
Motabar, Omid
Nussbaum, Robert L.
Pavan, William J
Shen, Min
Sidransky, Ellen
Skoumbourdis, Amanda P.
Stubblefield, Barbara K.
Thomas, Craig J.
Tifft, Cynthia J.

(b) (4)

Venditti, Charles P.
Westbroek, Wendy
Wolfe, Lynne A.

NHLBI

Adelstein, Robert
Aletras, Anthony Homer
Amar, Marcelo A.
Arai, Andrew Ernest
Berra, Lorenzo
Boehm, Manfred
Brewer, H. Bryan
Cannon, Richard O.
Cecchini, Sylvain
Chen, Guibin
Cherkasova, Elena A.
Childs, Richard W.
Chiorini, John A.
Combs, Christian A.
Demosky, Stephen J.
Derbyshire, John Andrew
Ding, Chuan-Tian
Ding, Chuantian
Finkel, Toren

(b) (3) (A), (b) (4),
(b) (6)

\$380,107.33

(b) (3) (A), (b) (4),
(b) (6)

(b) (3) (A), (b) (4), (b) (6)

Gladwin, Mark T.

Hsu, Li - Yueh

Hunter, Christian J

Jacobs, Matthew James

(b) (4)

Kawamoto, Sachiyo

Kelley, Christine A

Kellman, Peter

Kim, Kee Kwang

Knepper, Mark A

Kolobow, Theodor

Kotin, Robert M.

Larochelle, Andre

Li, Lina

(b) (4)

(b) (4)

(b) (4)

McVeigh, Elliott R

Neufeld, Edward B.

Nezafat, Reza

Nirenberg, (b) (6) Marshall

Remaley, Alan T.

Smith, Richard H.

Stonik, John A.

Sviridov, Denis O.

Thomas, Fairwell

(b) (4)

(b) (4)

Urabe, Masashi

(b) (4)

Walsh, Frank

Wen, Han

Wolska, Anna

Yang, Yanqin

Zhu, Jun	(b) (3) (A), (b) (4), (b) (6)
NIA	\$65,506.66
Bagrov, Alexei	(b) (3) (A), (b) (4), (b) (6)
Doyle, Maire E	
Egan, Josephine M	
Falco, Geppino	
Fedorova, Olga V.	
Greig, Nigel H	
Hodes, Richard	
Hodes, Richard J	
Holloway, Harold	
Ko, Minoru S.	
Lakatta, Edward G.	
Lee, Sung-Lim	
Matarin Jimenez, Maria Del Mar	
Monti, Manuela	
Perry, Tracy Ann	
Pitha, Josef	
Sharova, Lioudmila V.	
Shin, Soojung	
Singleton, Andrew B.	
Stanghellini, Ilaria	
Zalzman, Michal	
NIAAA	\$12,272.52
Cinar, Resat	(b) (3) (A), (b) (4), (b) (6)
Coffey, Nathan Jackson	
Iyer, Malliga R.	
Kunos, George I	
Rice, Kenner C.	
NIAID	\$720,777.56
Adachi, Akio	(b) (3) (A), (b) (4), (b) (6)
Akahata, Wataru	
Akin, Cem	
Alexander, Robert M.	

(b) (3) (A), (b) (4), (b) (6)

Atarashi, Ryuichiro
Baxa, Ulrich
Beeler, Judy A.
Bennink, Jack R.
Bermingham, Alison
Best, Sonja M.
Biacchesi, Stephanie
Blaney, Jr., Joseph E
Boyington, Jeffrey
Boyington, Jeffrey C.
Bray, Michael
Britt, William J.
Brock, Linda G.
Broder, Christopher
Buchholz, Ursula
Bukh, Jens
Bukreyev, Alexander
Caldwell, Harlan D
Caughey, Byron W.
Chakrabarti, Bimal K
Chanock, (b) (6) Robert
Chen, Lei
Chen, Man
Chen, Man
Chen, Zhao Chun
Cheng, Cheng
Chesebro, Bruce
Cheung, Yiu Chong Gordon
Chuang, Gwo-Yu
Coelingh, Kathleen L.
Cohen, Jeffrey
Collins, Peter L.
Conrad, John T.
Corbett, Kizzmekia

Cox, Josephine H
Datta, Sandip Kumar
Davey, Richard T.
DeVico, Angela M.
Doms, Robert W.
Druz, Aliaksandr A.
Earl, Patricia L.
Eckels, Kenneth H
Eisenbarth, (b) (6) George
Emerson, Suzanne U.
(b) (6) Clement K. Asiedu
Evans, Leonard
Fauci, Anthony
Fink, Doran
Folks, Thomas M
Galen, Joseph Van
Gao, Jiliang
Garboczi, David
Georgiev, Ivelin S.
Germain, Ronald N.
Gorman, Jason
Graham, Barney
Graham, Barney S.
Guatam, Rejeev
Gupta, Pradeep K.
Hanley, Kathryn
Harriman, Gregory R.
Haynes, Barton F.
Hoshino, Yasutaka
Hsu, Su-Cheng Dana
Hu, Haijing
Huang, (b) (6) Yue
(b) (4)
(b) (4)

(b) (3) (A), (b) (4),
(b) (6)

Jeang, (b) (6) Kuan-Teh
Jenkins, John P.
Joyce, Michael G.
Justement, Jesse S
Kanekiyo, Masaru
Kapikian, (b) (6) Albert Z
Kari, Laszlo
Kinter, Audrey L
Kirshenbaum, Arnold
Koh, Franklin
Kong, Wing-pui
Korty, Patricia E.
Kubofcik, Joseph
Kunimoto, Dennis Y.
Kwong, Peter D.
Lai, Ching-Juh
Lantz, Larry
Ledgerwood, Julie
Leonard, John M.
Leppla, Stephen H.
Leysath, Clinton E.
Liang, Bo
Long, Eric O.
Lubick, Kirk
Lujan, Hugo D
Luongo, Cindy L.
Mackett, Michael
Mangalampalli, Venkata R.
Marques, Adriana
Martin Pontejo, Jesus Sergio
Martin, Malcolm A
Mascola, John R.
McCarty, Thomas Charles
Mchugh, Rebecca S

(b) (3) (A), (b) (4),
(b) (6)

McLellan, Jason Scott
McTamney, Patrick
Men, Ruhe
Merritt, Joshua S.
Metcalf, Dean D
Miyazawa, Masaaki
Moayeri, Mahtab
Moin, Syed M.
Moore, Roger A.
Moss, Bernard
Mowatt, Michael
Mulangu, Sabue
Munir, Shirin
Murphy, Brian R.
Murphy, Philip M.
Muyembe-Tamfun, Jean-Jacques
Myles, Ian
Nabel, Gary J
Nash, Theodore
Nguyen, Hanh T.
Nishimura, Michael
Nutman, Thomas B.
Nutt, Anne S.
O'Brien, Daniel P.
OFEK, GILAD A
Ohara, Junichi
Ou, Li
Pancera, Marie L.
Paul, (b) (6) William E.
Pesnicak, Lesley M
Phillips, Damilola D.
Pletnev, Alexander G
Pomerantsev, Andrei P
Porgador, Angel

(b) (3) (A), (b) (4), (b)
(6)

Powell, Douglas M

Priola, Susette A.

Purcell, Robert H

Putnak, J. Robert

Quasney, Judit A.

Rabson, Arnold B.

Rajagopalan, Sumati

Rao, Srinivas

Robertson, Michael N.

Robertson, Shelly J.

(b) (4)

(b) (4)

Rundlet, Emily

Rutledge, Rosamond A.

Sadjadpour, Reza

Sastry, Mallika

Schwartz, Richard M.

Shevach, Ethan M

Shingai, Masashi

Shukla Bajpai, Priyanka

Siebenlist, Ulrich

Skiadopoulos, Mario

Smith, Geoffrey L

Soto, Cinque

Srivatsan, Sanjay R.

(b) (4)

Stanley, Daphne Amanda

Stephens, Geoffrey L.

Stewart-Jones, Guillaume

Stewart-Jones, Guillaume BE

Strober, Warren

Sullivan, Nancy J

Sun, Peter D

Theodore, (b) (6) Theodore S

(b) (3) (A), (b) (4), (b) (6)

Thomas, Paul V.
Tsybovsky, Yaroslav
Wang, Lingshu
Ward, Lucy A.
Wehrly, Kathryn
Wei, Chih--Jen
Whitehead, Stephen S.
Whittle, James R R
Willey, Ronald L.
Wycuff, Diane L.
Xu, Kai
Yanagi, Masayuki
YANG, YONGPING
Yang, Zhi-Yong
Yassine, Hadi M.
Yewdell, Jonathan W.
Zhang, Baoshan
Zhang, Yi-Ming
Zhou, Tongqing
Zou, Zhongcheng

(b) (3) (A), (b) (4),
(b) (6)

NIAMS

\$13,970.01

Brydges, Susannah Diane
Kastner, Daniel L
Kinet, Jean-Pierre
Plotz, Paul H.
Raben, Nina
Rao, Mahendra S

(b) (3) (A), (b) (4),
(b) (6)

NIBIB

\$65,774.34

Chen, Xiaoyuan
Goldstein, Seth R.
Mattiello, James H
Parekh, Sapun
Shroff, Hari
Smith, Paul D.

(b) (3) (A), (b) (4),
(b) (6)

Weiss, Orit Jacobson
York, Andrew G.

NICHD

Basser, Peter J
Blithe, Diana L.
Bonner, Robert F
Bridson, William E.
Buonanno, Andres
Chou, Janice Y.
Chumakov, Ekaterina
Crouch, Robert J.
Dawid, Igor
Deligiannidis, Kristina M Galarneau
Dey, Anup K
Dressler, Gregory R.
Hertz, Roy
Huang, Freesia
Huang, Kuo-Ping
Karavanov, Alex A. or Irina
Kingfield, Joyce G.
Klein, David C.
Kohler, Peter O
Korf, Horst-Werner
Kossaczka, Zuzana
Kubler-Kielb, Joanna
Liu, Darrell T
Majadly, Fathy D
McDonald, John
Nieman, Lynnette K.
Ozato Dawid, Keiko
Pajevic, Sinisa
Robbins, John B.
Schneerson, Rachel
Szu, Shousun C

(b) (3) (A), (b) (4),
(b) (6)

\$126,852.68

(b) (3) (A), (b) (4),
(b) (6)

Vullhorst, Detlef
Weller, Joan
Woodgate, Roger

(b) (3) (A), (b)
(4), (b) (6)

NIDA

\$25,499.54

Backman, Christina M
Cao, Jianjing
Cyriac, George C.
Grundt, Peter
Harvey, Brandon
Hope, Bruce T
Kumar, Vivek
Newman, Amy H.
Rice, Kenner C.
Richie, Christopher
Shaik, Anerbasha
Tomac, Andreas C
Wise, Roy A
Zangen, Abraham

(b) (3) (A), (b)
(4), (b) (6)

NIDCD

\$3,624.21

Griffith, Andrew J.
Labay, Valentia
Makishima, Tomoko
Montcouquiol, Mireille
RJ Wenthold (b) (6)
Selbie, W. Scott

(b) (3) (A), (b)
(4), (b) (6)

NIDCR

\$74,545.44

Adler, Jon Elliot
Akiyama, Steven
Burbelo, Peter D.
Chiorini, John A.
Elkin, Michael
Erlenbach, Isolde
Fisher, Larry
Gronthos, Stan

(b) (3) (A), (b) (4),
(b) (6)

Hoon, Mark
Hsu, Su-Cheng Dana
Iadarola, Michael J.
Keith, Jerry M
Kleinman, Hynda
Kulkarni, Ashok
Leppla, Stephen H.
Merkel, Todd J.
Miura, Masako
Ohshima, Toshio
Park, Sukjoon
Philp, Deborah
Quinn, Conrad P.
Robey, Pamela G.
Rosovitz, Mary Jo
Ryba, Nicholas
Seo, Byoung-Moo
Shi, Songtao
Singh, Yogendra
Siraganian, Reuben
Yamada, Kenneth
Yamada, Susan Sleeper
Yang, Xiaoming

(b) (3) (A), (b) (4),
(b) (6)

NIDDK

\$41,453.93

Appella, Daniel H
Chandramohan, Dhruva
Chou, Carson C.
Dean, Jurrien
East, Iain
Englund, Ethan A.
Ge, Kai
Goldsmith, Paul K
Hall, Kevin
Jacobson, Kenneth A

(b) (3) (A), (b) (4),
(b) (6)

Lee, Ji-Eun
Melman, Artem
Micklitsch, Christopher
Oquare, Bereket
Oral, Elif A.
Proia, Richard L
Ramirez, Delia
Rehermann, Barbara
Rosshart, Stephan Patrick
Sauer, Brian
Schechter, Alan N.
Shiloach, Joseph
Spiegel, Allen M.

(b) (4)

Taylor, Simeon
Tosh, Dilip K.
Wang, Deyun
Zhang, Ning
Zhao, Chao

NIEHS

(b) (4)

Baek, Seung Joon
Beckley, Amy J.
Bradbury, Jennifer Alyce
Cidlowski, John A.
DiAugustine, Richard P
(b) (4)
Eddy, Edward
Ehrenshaft, Marilyn I
Eling, Thomas E
Graves, Joan P.
Mason, Ronald P.
Moore, Rickie
Negishi, Masahiko

(b) (3) (A), (b)
(4), (b) (6)

\$20,032.23

(b) (3) (A), (b)
(4), (b) (6)

Oakley, Robert
Summers, Fiona A.
Teng, Christina T.
Wetsel, William
Zeldin, Darryl C

NIMH

Axelrod, (b) (6) Julius

Cohen, Robert M.
Dold, George R.
Drevets, Wayne C
Furey, Maura L.
Hampson, Aidan J.
Hu, Huaizhong
Jacobowitz, David
Kowalak, Jeffrey A.
Ma, Shenglin
Mahan, Lawrence C.
Manji, Husseini K.
Markey, Sanford P.
Masuda, Junichi
Morgan, Newlin T.
Neville, David
Scharff, Joshua
Strauss, Kenneth I
Swedo, Susan E
Thompson, Jerry

(b) (4)

Unsworth, Edward J.

Winsky, Lois

(b) (4)

Woo, Jung-Hee
Ye, Daniel
Zarate, Carlos A.

NINDS

(b) (3) (A), (b)
(4), (b) (6)

\$33,697.35
(b) (3) (A), (b)
(4), (b) (6)

\$92,702.49

Bielekova, Bibiana B
Blackstone, Craig D.
Brady, (b) (6) Roscoe O
Brann, (b) (6) Mark R
Dobersen, Michael J
Gainer, Harold
Grimaldi, Maurizio
Hallett, Mark
Hammer, Jeffrey A.
Hou, Jean
Hsu, Yite
Humbert, Ianessa A
Jensen, Peter N
Jin, Seok-Min
Lee, Myoung Hwa
Li, Wenxue
Lowell, Soren Y
Ludlow, Christy L.
Major, Eugene O
Martin, Roland
McFarland, Henry F.
McVittie, Loris D.
Messam, Conrad A
Miranda, Pedro
Monsma, Jr., Frederick J.
Murray, Gary J
Nath, Avindra
Noronha, Antonio B
Oldfield, (b) (6) Edward H.
Pierpaoli, Carlo
Pluta, Ryszard M
Poletto, Christopher J.
Quarles, Richard H.
Roth, Yiftach

(b) (3) (A), (b) (4), (b)
(6)

Schwartz, Joan P
Sibley, David R.
Steiner, Joseph Perry
Stormann, Thomas M.
Sugita, Yukihiro
Suzuki, Motoshi
Taniwaki, Takayuki
Warach, Steven J.
Youle, Richard J.
Zhu, Peng-Peng

NINR

Barr, Taura L.

(b) (4)

(b) (3) (A), (b) (4),
(b) (6)

(b) (3) (A), (b) (4),
(b) (6)

NIH Patent Licensing Activities
CC
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
+L-151-16/1	Rosenzweig, Sergio	(b)(4);	Emergent BioSolutions	26-Sep-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-151-16/1 split between CC; NHGRI</i>										
+L-111-06/0	CC		ICAD Inc	10-Oct-18						
<i>Note: L-111-06/0 split between CC; CIT; NIDCD</i>										
+L-028-18/1	Lay, Nathan Stephan	(b)(4);	Scanmed LLC	10-Oct-18						
+L-028-18/1	Reinhard Roth, Holger	(b)(6)	Scanmed LLC	10-Oct-18						
+L-028-18/1	Summers, Ronald		Scanmed LLC	10-Oct-18						
+L-028-18/1	Tsehay, Yohannes Kebede		Scanmed LLC	10-Oct-18						
<i>Note: L-028-18/1 split between CC; CIT; NCI</i>										
+L-157-18/0	CC		3T Technologies	25-Oct-18						
+L-157-18/0	Wood, Bradford J	(b)(4);	3T Technologies	25-Oct-18						
+L-157-18/0	Xu, Sheng	(b)(6)	3T Technologies	25-Oct-18						

NIH Patent Licensing Activities
CC
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-143-18/0	CC		Geneius Biotechnology, Inc	6-Nov-18						(b) (3) (A), (b) (4)
<i>Note: L-143-18/0 split between CC; NCI</i>										
+L-240-17/0	CC		United Therapeutics Corporation	13-Nov-18						
<i>Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS</i>										
+L-160-18/0	CC		Advanced Imaging Projects, LLC (AIP)	28-Nov-18						

NIH Patent Licensing Activities
CC
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-159-07/2	Gladwin, Mark T.	(b)(4); (b)	Hope Pharmaceuticals	11-Dec-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-159-07/2 split between CC; NHLBI; NIDDK; NINDS</i>										
+L-143-07/2	Gladwin, Mark T.	(b)(4);	Hope Pharmaceuticals	11-Dec-18						
<i>Note: L-143-07/2 split between CC; NHLBI; NIDDK</i>										

(b) (3) (A), (b) (4), (b) (6)

+L-107-15/1	Jin, Jianjian	(b)(4);	Lion Biotechnologies, Inc.	28-Dec-18
+L-107-15/1	Sabatino, Marianna V.	(b)(6)	Lion Biotechnologies, Inc.	28-Dec-18
+L-107-15/1	Stroncek, David F.		Lion Biotechnologies, Inc.	28-Dec-18

Note: L-107-15/1 split between CC; NCI

NIH Patent Licensing Activities
CC
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-111-06/0	Franaszek, Marek	(b)(4);	ICAD Inc	25-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-111-06/0	Huang, Hui-Yang	(b)(6)	ICAD Inc	25-Jan-19						
+L-111-06/0	Iordanescu, Gheorghe		ICAD Inc	25-Jan-19						
+L-111-06/0	Jerebko, Anna K		ICAD Inc	25-Jan-19						
+L-111-06/0	(b) (4)		ICAD Inc	25-Jan-19						
+L-111-06/0	Roy, David		ICAD Inc	25-Jan-19						
+L-111-06/0	Summers, Ronald		ICAD Inc	25-Jan-19						
+L-111-06/0	Yao, Jianhua		ICAD Inc	25-Jan-19						

Note: L-111-06/0 split between CC; CIT; NIDCD

+L-159-07/2	CC		Hope Pharmaceuticals	29-Jan-19
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Note: L-159-07/2 split between CC; NHLBI; NIDDK; NINDS

NIH Patent Licensing Activities
CC
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-160-18/0	Burnett, Christopher A.	(b)(4);	Advanced Imaging Projects, LLC (AIP)	1-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-160-18/0	Danthi, S. Narasimhan	(b)(6)	Advanced Imaging Projects, LLC (AIP)	1-Feb-19						
+L-160-18/0	Li, King		Advanced Imaging Projects, LLC (AIP)	1-Feb-19						
+L-107-15/1	CC		Lion Biotechnologies, Inc.	13-Feb-19						

Note: L-107-15/1 split between CC; NCI

+L-122-12/0	LeBihan, Denis	(b)(4);	AnalyzeDirect Inc	13-Feb-19
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Note: L-122-12/0 split between CC; NIBIB; NICHD; NINDS

NIH Patent Licensing Activities
CC
March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-122-17/0	Kwak, Jin Tae	(b)(4);	Koninklijke Philips N.V.	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-122-17/0	Summers, Ronald	(b)(6)	Koninklijke Philips N.V.	1-Mar-19						

+L-122-17/0 Wood, Bradford J
 +L-122-17/0 Xu, Sheng
Note: L-122-17/0 split between CC; NCI

(b)(4);
 (b)(6)

Koninklijke Philips N.V.
 Koninklijke Philips N.V.

1-Mar-19
 1-Mar-19

+L-160-18/0 Burnett, Christopher A.
 +L-160-18/0 Danthi, S. Narasimhan
 +L-160-18/0 Li, King

Advanced Imaging Projects, LLC (AIP)
 Advanced Imaging Projects, LLC (AIP)
 Advanced Imaging Projects, LLC (AIP)

18-Mar-19
 18-Mar-19
 18-Mar-19

(b) (3) (A), (b) (4), (b) (6)

\$67,252.91	\$16,750.59	\$84,003.50	\$16,856.09	\$67,147.41
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 CDC
 October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
+L-174-13/1	Chang, Gwong-Jen J.	(b)(4); (b)(6)	Hennessy Research Associates	21-Sep-18						(b) (3) (A), (b) (4), (b) (6)
+L-123-18/0	Roehrig, John T.		InBios International	21-Sep-18						
+L-129-13/0	Reid, Thomas M.		Aerotech Laboratories, Inc.	4-Oct-18						
+L-129-13/0	Schafer, Millie P.		Aerotech Laboratories, Inc.	4-Oct-18						
+L-129-13/0	Reid, Thomas M.		Aerotech Laboratories, Inc.	4-Oct-18						
+L-129-13/0	Schafer, Millie P.		Aerotech Laboratories, Inc.	4-Oct-18						
+L-015-14/0	McDougal, Steve		Columbia University	5-Oct-18						
+L-145-13/3	Gentsch, Jon R.		Beijing Luzhu Biopharm Co., Ltd.	10-Oct-18						
+L-145-13/3	Glass, Roger I.		Beijing Luzhu Biopharm Co., Ltd.	10-Oct-18						
+L-145-13/3	Jiang, Baoming		Beijing Luzhu Biopharm Co., Ltd.	10-Oct-18						
+L-145-13/3	Saluzzo, Jean-francious		Beijing Luzhu Biopharm Co., Ltd.	10-Oct-18						
+L-145-13/3	Wang, Yuhuan		Beijing Luzhu Biopharm Co., Ltd.	10-Oct-18						
+L-145-13/3	Gentsch, Jon R.		Beijing Luzhu Biopharm Co., Ltd.	10-Oct-18						
+L-145-13/3	Glass, Roger I.		Beijing Luzhu Biopharm Co., Ltd.	10-Oct-18						
+L-145-13/3	Jiang, Baoming		Beijing Luzhu Biopharm Co., Ltd.	10-Oct-18						
+L-145-13/3	Saluzzo, Jean-francious		Beijing Luzhu Biopharm Co., Ltd.	10-Oct-18						
+L-145-13/3	Wang, Yuhuan		Beijing Luzhu Biopharm Co., Ltd.	10-Oct-18						
+L-233-18/0	Bagarozzi, Dennis Anthony		InBios International, Inc.	16-Oct-18						
+L-233-18/0	Boyer, Anne E.		InBios International, Inc.	16-Oct-18						
+L-233-18/0	Goldstein, Jason Marc		InBios International, Inc.	16-Oct-18						
+L-233-18/0	Quinn, Conrad P.		InBios International, Inc.	16-Oct-18						
+L-180-13/3	Chang, Gwong-Jen J.		InBios International, Inc.	16-Oct-18						
+L-233-18/0	Bagarozzi, Dennis Anthony		InBios International, Inc.	16-Oct-18						
+L-233-18/0	Boyer, Anne E.		InBios International, Inc.	16-Oct-18						
+L-233-18/0	Goldstein, Jason Marc		InBios International, Inc.	16-Oct-18						
+L-233-18/0	Quinn, Conrad P.		InBios International, Inc.	16-Oct-18						
+L-226-13/0	CDC		Tick Box Technology Corp.	16-Oct-18						
+L-231-13/0	Murphy, William J.		Michael & Associates, Inc.	16-Oct-18						
+L-231-13/0	Raudabaugh, William M.		Michael & Associates, Inc.	16-Oct-18						
+L-231-13/0	Stephenson, Mark R.		Michael & Associates, Inc.	16-Oct-18						
+L-187-18/0	Gentsch, Jon R.		Beijing Cell-fusion Biotechnology Co., L	25-Oct-18						
+L-187-18/0	Glass, Roger I.		Beijing Cell-fusion Biotechnology Co., L	25-Oct-18						
+L-187-18/0	Jiang, Baoming		Beijing Cell-fusion Biotechnology Co., L	25-Oct-18						
+L-187-18/0	Saluzzo, Jean-francious		Beijing Cell-fusion Biotechnology Co., L	25-Oct-18						
+L-187-18/0	Wang, Yuhuan		Beijing Cell-fusion Biotechnology Co., L	25-Oct-18						
+L-187-18/0	Gentsch, Jon R.		Beijing Cell-fusion Biotechnology Co., L	25-Oct-18						
+L-187-18/0	Glass, Roger I.		Beijing Cell-fusion Biotechnology Co., L	25-Oct-18						
+L-187-18/0	Jiang, Baoming		Beijing Cell-fusion Biotechnology Co., L	25-Oct-18						
+L-187-18/0	Saluzzo, Jean-francious		Beijing Cell-fusion Biotechnology Co., L	25-Oct-18						

+L-187-18/0	Wang, Yuhuan	(b)(4); (b)(6)	Beijing Cell-fusion Biotechnology Co., L	25-Oct-18	(b) (3) (A), (b) (4), (b) (6)
+L-070-16/1	Sanchez, Anthony		PaxVax, Inc.	25-Oct-18	
<i>Note: L-070-16/1 split between CDC; NIAID</i>					
+L-005-14/2	CDC		Trellis Bioscience	30-Oct-18	

NIH Patent Licensing Activities
CDC
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-186-13/6	Chang, Gwong-Jen J.	(b)(4);	DiaSorin Molecular	2-Nov-18						(b) (3) (A), (b) (4), (b) (6)
+L-186-13/6	Roehrig, John T.	(b)(6)	DiaSorin Molecular	2-Nov-18						
+L-009-19/0	Guo, Zhu		nDevR, Inc.	5-Nov-18						
+L-009-19/0	Stevens, James		nDevR, Inc.	5-Nov-18						
+L-009-19/0	Wilson, Jason Ray		nDevR, Inc.	5-Nov-18						
+L-009-19/0	York, Ian Arthur		nDevR, Inc.	5-Nov-18						
+L-195-14/0	Beck, Eric T.		CTK Biotech, Inc.	6-Nov-18						
+L-195-14/0	Kinney, Claire Huang		CTK Biotech, Inc.	6-Nov-18						
+L-195-14/0	Kinney, Richard M.		CTK Biotech, Inc.	6-Nov-18						
+L-160-14/1	Harmon, Maurice		Millipore Corp.	6-Nov-18						
+L-160-14/1	Kendal, Alan P.		Millipore Corp.	6-Nov-18						
+L-160-14/1	Stockdale, Carol		Millipore Corp.	6-Nov-18						
+L-160-14/1	Walls, Harriet		Millipore Corp.	6-Nov-18						
+L-155-14/1	Freeman, Charlotte		Millipore Corp.	6-Nov-18						
+L-155-14/1	Pallansch, Mark A.		Millipore Corp.	6-Nov-18						
+L-150-14/1	Maher, Kaija		EMD Millipore Corporation	6-Nov-18						
+L-150-14/1	Pallansch, Mark A.		EMD Millipore Corporation	6-Nov-18						
+L-198-16/1	CDC		Codagenix	9-Nov-18						
+L-198-16/1	CDC		Codagenix	9-Nov-18						
+L-198-16/1	CDC		Codagenix	12-Nov-18						
+L-247-18/0	Khudyakov, Yury E	(b)(4); (b)(6)	RPC Diagnostic Systems, Ltd	13-Nov-18						
+L-247-18/0	Khudyakov, Yury E		RPC Diagnostic Systems, Ltd	13-Nov-18						
+L-266-18/0	Gentsch, Jon R.		Chengdu Boaoxax Company	13-Nov-18						
+L-266-18/0	Glass, Roger I.		Chengdu Boaoxax Company	13-Nov-18						
+L-266-18/0	Jiang, Baoming		Chengdu Boaoxax Company	13-Nov-18						
+L-266-18/0	Wang, Yuhuan		Chengdu Boaoxax Company	13-Nov-18						
+L-329-14/0	Bishop, Henry		Fuller Laboratories	13-Nov-18						
+L-178-13/2	Ashley, Kevin E.		Hygenall Corp.	14-Nov-18						
+L-178-13/2	Boeniger, Mark F.		Hygenall Corp.	14-Nov-18						
+L-178-13/2	Esswein, Eric J.		Hygenall Corp.	14-Nov-18						

License	Inventor	Share %	Licensee	Date of Deposit	(b) (3) (A), (b) (4), (b) (6)	
+L-087-15/0	Damon, Inger K.	(b)(4);	Chengdu Boao Bio-tech Co.	16-Nov-18		
+L-087-15/0	Hanlon, Cathleen	(b)(6)	Chengdu Boao Bio-tech Co.	16-Nov-18		
+L-087-15/0	Wu, Xianfu		Chengdu Boao Bio-tech Co.	16-Nov-18		
+L-167-18/0	Aloisio, Carol H.		Southern Biotechnology	16-Nov-18		
+L-167-18/0	Black, Charlotte M.		Southern Biotechnology	16-Nov-18		
+L-167-18/0	Galland, Gale G.		Southern Biotechnology	16-Nov-18		
+L-167-18/0	Moore, Deborah D.		Southern Biotechnology	16-Nov-18		
+L-167-18/0	Phillips, Donald		Southern Biotechnology	16-Nov-18		
+L-167-18/0	Reimer, Charles B.		Southern Biotechnology	16-Nov-18		
+L-167-18/0	Wells, Thomas		Southern Biotechnology	16-Nov-18		
+L-298-14/0	CDC		Clean Air Filter	20-Nov-18		
+L-126-15/1	CDC		GlaxoSmithKline Biologicals, S.A.	21-Nov-18		
<i>Note: L-126-15/1 split between CDC; NIAID</i>						
+L-005-14/2	CDC		Trellis Bioscience	21-Nov-18		
+L-061-17/0	Amador, Manuel	(b)(4);	AP&G Co., Inc	27-Nov-18		
+L-061-17/0	Barrera, Roberto	(b)(6)	AP&G Co., Inc	27-Nov-18		
+L-061-17/0	Mackay, Andrew J.		AP&G Co., Inc	27-Nov-18		
+L-226-13/0	Dolan, Marc C.		Tick Box Technology Corp.	28-Nov-18		
+L-226-13/0	Maupin, Gary O.		Tick Box Technology Corp.	28-Nov-18		
+L-205-13/1	Cox, Nancy J.		University of Florida Research Foundatio	29-Nov-18		
+L-205-13/1	Donis, Ruben O.		University of Florida Research Foundatio	29-Nov-18		
+L-205-13/1	Katz, Jacqueline M.		University of Florida Research Foundatio	29-Nov-18		
+L-205-13/1	Klimov, Alexander I.		University of Florida Research Foundatio	29-Nov-18		

**NIH Patent Licensing Activities
CDC
December 2018**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-248-13/0	Tuchman, Donald P.	(b)(4);	Thermo Environmental Inst., Inc.	4-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-233-13/0	Hummer, Jon	(b)(6)	Thermo Environmental Instruments	4-Dec-18						
+L-233-13/0	Volkwein, Jon C.		Thermo Environmental Instruments	4-Dec-18						
+L-283-18/0	Folks, Thomas M		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Garcia Lerma, Jose Gerardo		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Heneine, Walid M.		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Janssen, Robert		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Otten, Ronald		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Folks, Thomas M		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Garcia Lerma, Jose Gerardo		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Heneine, Walid M.		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Janssen, Robert		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Otten, Ronald		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Folks, Thomas M		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Garcia Lerma, Jose Gerardo		TAD Pharma GmbH	4-Dec-18						
+L-283-18/0	Heneine, Walid M.		TAD Pharma GmbH	4-Dec-18						

+L-283-18/0	Janssen, Robert	(b)(4);	TAD Pharma GmbH	4-Dec-18
+L-283-18/0	Otten, Ronald	(b)(6)	TAD Pharma GmbH	4-Dec-18
+L-283-18/0	CDC		TAD Pharma GmbH	4-Dec-18
+L-142-14/2	Alisio, Carol H.	(b)(4);	Life Technologies Corporation	6-Dec-18
+L-142-14/2	Black, Charlotte M.	(b)(6)	Life Technologies Corporation	6-Dec-18
+L-142-14/2	Galland, Gale G.		Life Technologies Corporation	6-Dec-18
+L-142-14/2	Moore, Deborah D.		Life Technologies Corporation	6-Dec-18
+L-142-14/2	Phillips, Donald		Life Technologies Corporation	6-Dec-18
+L-142-14/2	Reimer, Charles B.		Life Technologies Corporation	6-Dec-18
+L-142-14/2	Wells, Thomas		Life Technologies Corporation	6-Dec-18
+L-150-13/1	Gentsch, Jon R.		Changchun Hongda Bio. Pharm. Co., Ltd.	7-Dec-18
+L-150-13/1	Glass, Roger I.		Changchun Hongda Bio. Pharm. Co., Ltd.	7-Dec-18
+L-150-13/1	Jiang, Baoming		Changchun Hongda Bio. Pharm. Co., Ltd.	7-Dec-18
+L-150-13/1	Saluzzo, Jean-francious		Changchun Hongda Bio. Pharm. Co., Ltd.	7-Dec-18
+L-150-13/1	Wang, Yuhuan		Changchun Hongda Bio. Pharm. Co., Ltd.	7-Dec-18
+L-139-14/1	Bellini, William J.		VMRD, Inc.	7-Dec-18
+L-139-14/1	Esposito, Joseph J.		VMRD, Inc.	7-Dec-18
+L-139-14/1	Summer, John		VMRD, Inc.	7-Dec-18
+L-212-14/0	Granade, Timothy C.		Maxim Biotech, Inc.	11-Dec-18
+L-212-14/0	Parekh, Bharat S.		Maxim Biotech, Inc.	11-Dec-18
+L-212-14/0	Pau, Chou-Pong		Maxim Biotech, Inc.	11-Dec-18
+L-231-13/0	Murphy, William J.		Michael & Associates, Inc.	11-Dec-18
+L-231-13/0	Raudabaugh, William M.		Michael & Associates, Inc.	11-Dec-18
+L-231-13/0	Stephenson, Mark R.		Michael & Associates, Inc.	11-Dec-18
+L-187-18/0	Gentsch, Jon R.		Beijing Cell-fusion Biotechnology Co., L	13-Dec-18
+L-187-18/0	Glass, Roger I.		Beijing Cell-fusion Biotechnology Co., L	13-Dec-18
+L-187-18/0	Jiang, Baoming		Beijing Cell-fusion Biotechnology Co., L	13-Dec-18
+L-187-18/0	Saluzzo, Jean-francious		Beijing Cell-fusion Biotechnology Co., L	13-Dec-18
+L-187-18/0	Wang, Yuhuan		Beijing Cell-fusion Biotechnology Co., L	13-Dec-18
+L-102-18/0	Robertson, Shirley		Becton, Dickinson and Company	14-Dec-18
+L-102-18/0	Sammons, Deborah L.		Becton, Dickinson and Company	14-Dec-18
+L-102-18/0	Smith, Jerome P.		Becton, Dickinson and Company	14-Dec-18
+L-102-18/0	Robertson, Shirley		Becton, Dickinson and Company	14-Dec-18
+L-102-18/0	Sammons, Deborah L.		Becton, Dickinson and Company	14-Dec-18
+L-102-18/0	Smith, Jerome P.		Becton, Dickinson and Company	14-Dec-18
+L-135-17/2	Sanchez, Anthony		Emergent Product Development	14-Dec-18
<i>Note: L-135-17/2 split between CDC; NIAID</i>				
+L-143-14/3	Roehrig, John T.		VecTOR Test Systems	18-Dec-18
+L-065-15/0	Aloisio, Carol H.		BioLegend, Inc.	18-Dec-18
+L-065-15/0	Black, Charlotte M.		BioLegend, Inc.	18-Dec-18
+L-065-15/0	Galland, Gale G.		BioLegend, Inc.	18-Dec-18
+L-065-15/0	Moore, Deborah D.		BioLegend, Inc.	18-Dec-18
+L-065-15/0	Phillips, Donald		BioLegend, Inc.	18-Dec-18
+L-065-15/0	Reimer, Charles B.		BioLegend, Inc.	18-Dec-18
+L-065-15/0	Wells, Thomas		BioLegend, Inc.	18-Dec-18
+L-101-17/0	Devos, Joshua R.		Life Technologies Corporation	19-Dec-18

(b) (3) (A), (b) (4), (b) (6)

+L-101-17/0	Wagar, Nicholas	(b)(4);	Life Technologies Corporation	19-Dec-18
+L-101-17/0	Yang, Chunfu (Dustin)	(b)(6)	Life Technologies Corporation	19-Dec-18
+L-101-17/0	Zhou, Zhiyong		Life Technologies Corporation	19-Dec-18
+L-197-13/1	Cox, Nancy J.		Life Technologies Corporation	19-Dec-18
+L-197-13/1	Klimov, Alexander I.		Life Technologies Corporation	19-Dec-18
+L-197-13/1	Lindstrom, Stephen		Life Technologies Corporation	19-Dec-18
+L-197-13/1	Loftin, Lamorris		Life Technologies Corporation	19-Dec-18
+L-235-13/0	Berman, LaShondra		Life Technologies Corp.	19-Dec-18
+L-235-13/0	Emery, Shannon L.		Life Technologies Corp.	19-Dec-18
+L-235-13/0	Lindstrom, Stephen		Life Technologies Corp.	19-Dec-18
+L-235-13/0	Shu, Bo		Life Technologies Corp.	19-Dec-18
+L-070-16/1	Sanchez, Anthony		PaxVax, Inc.	19-Dec-18
<i>Note: L-070-16/1 split between CDC; NIAID</i>				
+L-005-14/2	CDC		Trellis Bioscience	20-Dec-18
+L-210-17/0	CDC		Quest Diagnostics Inc.	20-Dec-18
+L-247-18/0	CDC		RPC Diagnostic Systems, Ltd	20-Dec-18
+L-185-14/1	Cromeans, Theresa	(b)(4);	Indian Immunologicals Ltd.	20-Dec-18
+L-185-14/1	Fields, Howard A.	(b)(6)	Indian Immunologicals Ltd.	20-Dec-18
+L-205-15/0	CDC		Indian Immunologicals	20-Dec-18
+L-149-14/1	Roehrig, John T.	(b)(4);	Alere Inc.	20-Dec-18
		(b)(6)		
+L-127-13/2	Esswein, Eric J.		SKC, Inc.	28-Dec-18
+L-127-13/2	Kennedy, Eugene R.		SKC, Inc.	28-Dec-18
+L-127-13/2	Snawder, John E.		SKC, Inc.	28-Dec-18
+L-127-13/2	Striley, Cynthia A.		SKC, Inc.	28-Dec-18
+L-231-13/0	Murphy, William J.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Raudabaugh, William M.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Stephenson, Mark R.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Murphy, William J.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Raudabaugh, William M.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Stephenson, Mark R.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Murphy, William J.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Raudabaugh, William M.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Stephenson, Mark R.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Murphy, William J.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Raudabaugh, William M.		Michael & Associates, Inc.	28-Dec-18
+L-231-13/0	Stephenson, Mark R.		Michael & Associates, Inc.	28-Dec-18

NIH Patent Licensing Activities
CDC
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	License			Inventor Awards January	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income		

+L-184-13/0	Kulkarni, Pramod	(b)(4);	Kanomax Japan, Inc.	1-Jan-19
+L-184-13/0	Qi, Chaolong	(b)(6)	Kanomax Japan, Inc.	1-Jan-19
+L-187-13/0	Kulkarni, Pramod		Kanomax Japan, Inc.	1-Jan-19
+L-187-13/0	Qi, Chaolong		Kanomax Japan, Inc.	1-Jan-19
+L-128-14/1	Harmon, Maurice		Medix Biochemica	1-Jan-19
+L-128-14/1	Kendal, Alan P.		Medix Biochemica	1-Jan-19
+L-128-14/1	Stockdale, Carol		Medix Biochemica	1-Jan-19
+L-128-14/1	Walls, Harriet		Medix Biochemica	1-Jan-19
+L-203-18/0	CDC		Serum Institute of India	1-Jan-19
+L-249-13/1	Gentsch, Jon R.	(b)(4);	Serum Institute of India Ltd.	1-Jan-19
+L-249-13/1	Glass, Roger I.	(b)(6)	Serum Institute of India Ltd.	1-Jan-19
+L-249-13/1	Jiang, Baoming		Serum Institute of India Ltd.	1-Jan-19
+L-249-13/1	Saluzzo, Jean-francious		Serum Institute of India Ltd.	1-Jan-19
+L-249-13/1	Wang, Yuhuan		Serum Institute of India Ltd.	1-Jan-19
+L-029-14/0	CDC		Serum Institute of India Ltd.	1-Jan-19
+L-251-13/0	Gentsch, Jon R.	(b)(4);	Walvax Biotech.	3-Jan-19
+L-251-13/0	Glass, Roger I.	(b)(6)	Walvax Biotech.	3-Jan-19
+L-251-13/0	Jiang, Baoming		Walvax Biotech.	3-Jan-19
+L-251-13/0	Saluzzo, Jean-francious		Walvax Biotech.	3-Jan-19
+L-251-13/0	Wang, Yuhuan		Walvax Biotech.	3-Jan-19
+L-331-14/0	CDC		Microbiologics Inc.	4-Jan-19
+L-196-17/0	CDC		Microbiologics Inc	4-Jan-19
+L-035-17/0	CDC		Microbiologics Inc	4-Jan-19
+L-016-15/0	Cromeans, Theresa	(b)(4);	Microbiologics, Inc.	4-Jan-19
+L-016-15/0	Hill, Vincent R.	(b)(6)	Microbiologics, Inc.	4-Jan-19
+L-016-15/0	Narayanan, Jothikumar		Microbiologics, Inc.	4-Jan-19
+L-016-15/0	Vinje, Jan		Microbiologics, Inc.	4-Jan-19
+L-173-16/1	CDC		Microbiologics, Inc.	4-Jan-19
+L-188-15/0	CDC		Microbiologics, Inc.	4-Jan-19
+L-108-14/3	CDC		Microbiologics, Inc.	4-Jan-19
+L-218-17/0	CDC		Microbiologics Inc	4-Jan-19
+L-167-18/0	Aloisio, Carol H.	(b)(4);	Southern Biotechnology	4-Jan-19
+L-167-18/0	Black, Charlotte M.	(b)(6)	Southern Biotechnology	4-Jan-19
+L-167-18/0	Galland, Gale G.		Southern Biotechnology	4-Jan-19
+L-167-18/0	Moore, Deborah D.		Southern Biotechnology	4-Jan-19
+L-167-18/0	Phillips, Donald		Southern Biotechnology	4-Jan-19
+L-167-18/0	Reimer, Charles B.		Southern Biotechnology	4-Jan-19
+L-167-18/0	Wells, Thomas		Southern Biotechnology	4-Jan-19
+L-129-14/2	Anderson, Larry J.		ViroStat, Inc.	14-Jan-19
+L-129-14/2	Tsou, Cecelia		ViroStat, Inc.	14-Jan-19
+L-129-14/2	Anderson, Larry J.		ViroStat, Inc.	14-Jan-19
+L-129-14/2	Tsou, Cecelia		ViroStat, Inc.	14-Jan-19

+L-025-16/0	Roehrig, John T.	(b)(4); (b)(6)	Hennessy Research Associates	15-Jan-19
+L-174-13/1	Chang, Gwong-Jen J.		Hennessy Research Associates	15-Jan-19
+L-005-14/2	CDC		Trellis Bioscience	16-Jan-19
+L-226-13/0	Dolan, Marc C.	(b)(4);	Tick Box Technology Corp.	16-Jan-19
+L-226-13/0	Maupin, Gary O.	(b)(6)	Tick Box Technology Corp.	16-Jan-19
+L-127-13/2	Esswein, Eric J.		SKC, Inc.	17-Jan-19
+L-127-13/2	Kennedy, Eugene R.		SKC, Inc.	17-Jan-19
+L-127-13/2	Snawder, John E.		SKC, Inc.	17-Jan-19
+L-127-13/2	Striley, Cynthia A.		SKC, Inc.	17-Jan-19
+L-126-13/0	Ashley, Kevin E.		SKC, Inc.	17-Jan-19
+L-126-13/0	Boeniger, Mark F.		SKC, Inc.	17-Jan-19
+L-126-13/0	Esswein, Eric J.		SKC, Inc.	17-Jan-19
+L-093-05/4	Sanchez, Anthony <i>Note: L-093-05/4 split between CDC; NIAID</i>		Crucell Holland BV	18-Jan-19
+L-130-14/1	Donlan, Rodney M.		BioSurface Tech.	21-Jan-19
+L-130-14/1	Kirby, Wayne		BioSurface Tech.	21-Jan-19
+L-130-14/1	Murga, Ricardo		BioSurface Tech.	21-Jan-19
+L-146-13/0	Gentsch, Jon R.		Biological E. Ltd.	22-Jan-19
+L-146-13/0	Glass, Roger I.		Biological E. Ltd.	22-Jan-19
+L-146-13/0	Jiang, Baoming		Biological E. Ltd.	22-Jan-19
+L-146-13/0	Saluzzo, Jean-francious		Biological E. Ltd.	22-Jan-19
+L-146-13/0	Wang, Yuhuan		Biological E. Ltd.	22-Jan-19
+L-198-13/0	Fields, Patricia		Luminex Corporation	23-Jan-19
+L-198-13/0	Leaumont, Collette F.		Luminex Corporation	23-Jan-19
+L-198-13/0	McQuiston, John R.		Luminex Corporation	23-Jan-19
+L-175-13/0	Chang, Gwong-Jen J.		ID-VET Sar1	24-Jan-19
+L-243-13/0	Beall, David S.		VaxDesign Corp.	24-Jan-19
+L-243-13/0	Birkness, Kristin A.		VaxDesign Corp.	24-Jan-19
+L-243-13/0	Deslauries, Manon		VaxDesign Corp.	24-Jan-19
+L-243-13/0	King, Peter		VaxDesign Corp.	24-Jan-19
+L-243-13/0	Quinn, Frederick D.		VaxDesign Corp.	24-Jan-19
+L-198-16/1	Burns, Cara C.		Codagenix	26-Jan-19
+L-198-16/1	Campagnoli, Raymond		Codagenix	26-Jan-19
+L-198-16/1	Kew, Olen M.		Codagenix	26-Jan-19
+L-198-16/1	Quay, Jacqueline		Codagenix	26-Jan-19
+L-198-16/1	Shaw, Jing		Codagenix	26-Jan-19
+L-148-13/0	Collins, Carlyn		3DHISTECH Ltd.	28-Jan-19
+L-148-13/0	Gagnon, MariBeth		3DHISTECH Ltd.	28-Jan-19
+L-148-13/0	Lange, James V.		3DHISTECH Ltd.	28-Jan-19
+L-148-13/0	Lee, Tommy		3DHISTECH Ltd.	28-Jan-19
+L-148-13/0	Taylor, Roger		3DHISTECH Ltd.	28-Jan-19
+L-108-14/3	CDC		Microbiologics, Inc.	29-Jan-19
+L-331-14/0	CDC		Microbiologics Inc.	29-Jan-19

+L-016-15/0	Cromeans, Theresa	(b)(4);	Microbiologics, Inc.	29-Jan-19	(b) (3) (A), (b) (4), (b) (6)
+L-016-15/0	Hill, Vincent R.	(b)(6)	Microbiologics, Inc.	29-Jan-19	
+L-016-15/0	Narayanan, Jothikumar		Microbiologics, Inc.	29-Jan-19	
+L-016-15/0	Vinje, Jan		Microbiologics, Inc.	29-Jan-19	
+L-145-13/3	Gentsch, Jon R.		Beijing Luzhu Biopharm Co., Ltd.	29-Jan-19	
+L-145-13/3	Glass, Roger I.		Beijing Luzhu Biopharm Co., Ltd.	29-Jan-19	
+L-145-13/3	Jiang, Baoming		Beijing Luzhu Biopharm Co., Ltd.	29-Jan-19	
+L-145-13/3	Saluzzo, Jean-francious		Beijing Luzhu Biopharm Co., Ltd.	29-Jan-19	
+L-145-13/3	Wang, Yuhuan		Beijing Luzhu Biopharm Co., Ltd.	29-Jan-19	
+L-247-13/1	Castro, Arnold R.		Span Diagnostics Ltd.	29-Jan-19	
+L-247-13/1	George, Robert W.		Span Diagnostics Ltd.	29-Jan-19	
+L-162-13/0	Snyder, Jay L.		E.D. Bullard Co.	29-Jan-19	
+L-162-13/0	Wood, Gerry O.		E.D. Bullard Co.	29-Jan-19	
+L-168-16/0	Folks, Thomas M		Mylan, Inc.	30-Jan-19	
+L-168-16/0	Garcia-Lerma, J. Geraldo		Mylan, Inc.	30-Jan-19	
+L-168-16/0	Heneine, Walid M.		Mylan, Inc.	30-Jan-19	
+L-168-16/0	Janssen, Robert		Mylan, Inc.	30-Jan-19	
+L-168-16/0	Otten, Ronald		Mylan, Inc.	30-Jan-19	

**NIH Patent Licensing Activities
CDC
February 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-111-14/2	CDC		Invenprise LLC	1-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-198-16/1	Burns, Cara C.	(b)(4);	Codagenix	1-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-198-16/1	Campagnoli, Raymond	(b)(6)	Codagenix	1-Feb-19						
+L-198-16/1	Kew, Olen M.		Codagenix	1-Feb-19						
+L-198-16/1	Quay, Jacqueline		Codagenix	1-Feb-19						
+L-198-16/1	Shaw, Jing		Codagenix	1-Feb-19						
+L-166-17/0	CDC		Accelerate Diagnostics, Inc.	4-Feb-19						
+L-128-14/1	Harmon, Maurice	(b)(4);	Medix Biochemica	7-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-128-14/1	Kendal, Alan P.	(b)(6)	Medix Biochemica	7-Feb-19						
+L-128-14/1	Stockdale, Carol		Medix Biochemica	7-Feb-19						
+L-128-14/1	Walls, Harriet		Medix Biochemica	7-Feb-19						
+L-149-14/1	Roehrig, John T.		Alere Inc.	7-Feb-19						
+L-247-13/1	Castro, Arnold R.		Span Diagnostics Ltd.	8-Feb-19						
+L-247-13/1	George, Robert W.		Span Diagnostics Ltd.	8-Feb-19						
+L-154-13/0	Castro, Arnold R.		Chembio Diagnostic Sys., Inc.	11-Feb-19						
+L-154-13/0	George, Robert W.		Chembio Diagnostic Sys., Inc.	11-Feb-19						
+L-155-13/0	Castro, Arnold R.		Chembio Diagnostic Systems, Inc.	11-Feb-19						
+L-155-13/0	Morrill, William E.		Chembio Diagnostic Systems, Inc.	11-Feb-19						
+L-155-13/0	Pope, Victoria		Chembio Diagnostic Systems, Inc.	11-Feb-19						

+L-005-14/2	Anderson, Larry J.	(b)(4);	Trellis Bioscience	12-Feb-19
+L-005-14/2	Tripp, Ralph A.	(b)(6)	Trellis Bioscience	12-Feb-19
+L-005-14/2	(b)(4)	(b)(6)	Trellis Bioscience	12-Feb-19
+L-005-14/2	CDC		Trellis Bioscience	12-Feb-19
+L-065-15/0	Aloisio, Carol H.	(b)(4);	BioLegend, Inc.	19-Feb-19
+L-065-15/0	Black, Charlotte M.	(b)(6)	BioLegend, Inc.	19-Feb-19
+L-065-15/0	Galland, Gale G.		BioLegend, Inc.	19-Feb-19
+L-065-15/0	Moore, Deborah D.		BioLegend, Inc.	19-Feb-19
+L-065-15/0	Phillips, Donald		BioLegend, Inc.	19-Feb-19
+L-065-15/0	Reimer, Charles B.		BioLegend, Inc.	19-Feb-19
+L-065-15/0	Wells, Thomas		BioLegend, Inc.	19-Feb-19
+L-126-14/0	Alisio, Carol H.		BioLegend, Inc.	19-Feb-19
+L-126-14/0	Black, Charlotte M.		BioLegend, Inc.	19-Feb-19
+L-126-14/0	Galland, Gale G.		BioLegend, Inc.	19-Feb-19
+L-126-14/0	Moore, Deborah D.		BioLegend, Inc.	19-Feb-19
+L-126-14/0	Phillips, Donald		BioLegend, Inc.	19-Feb-19
+L-126-14/0	Reimer, Charles B.		BioLegend, Inc.	19-Feb-19
+L-126-14/0	Wells, Thomas		BioLegend, Inc.	19-Feb-19
+L-110-14/2	Alisio, Carol H.		Diasorin S.R.L.	20-Feb-19
+L-110-14/2	Black, Charlotte M.		Diasorin S.R.L.	20-Feb-19
+L-110-14/2	Galland, Gale G.		Diasorin S.R.L.	20-Feb-19
+L-110-14/2	Mark W. Reimer (b)(6)		Diasorin S.R.L.	20-Feb-19
+L-110-14/2	Moore, Deborah D.		Diasorin S.R.L.	20-Feb-19
+L-110-14/2	Phillips, Donald		Diasorin S.R.L.	20-Feb-19
+L-110-14/2	Wells, Thomas		Diasorin S.R.L.	20-Feb-19
+L-198-13/0	Fields, Patricia		Luminex Corporation	22-Feb-19
+L-198-13/0	Leaumont, Collette F.		Luminex Corporation	22-Feb-19
+L-198-13/0	McQuiston, John R.		Luminex Corporation	22-Feb-19
+L-149-14/1	Roehrig, John T.		Alere Inc.	22-Feb-19
+L-143-13/0	Cox, Nancy J.		Biosearch Technologies, Inc.	25-Feb-19
+L-143-13/0	Klimov, Alexander I.		Biosearch Technologies, Inc.	25-Feb-19
+L-143-13/0	Lindstrom, Stephen		Biosearch Technologies, Inc.	25-Feb-19
+L-143-13/0	Loftin, Lamorris		Biosearch Technologies, Inc.	25-Feb-19
+L-231-13/0	Murphy, William J.		Michael & Associates, Inc.	25-Feb-19
+L-231-13/0	Raudabaugh, William M.		Michael & Associates, Inc.	25-Feb-19
+L-231-13/0	Stephenson, Mark R.		Michael & Associates, Inc.	25-Feb-19
+L-112-18/0	Anderson, Raydel		Life Technologies	27-Feb-19
+L-112-18/0	Benitez, Alvaro J.		Life Technologies	27-Feb-19
+L-112-18/0	Carvalho, Maria Da Gloria		Life Technologies	27-Feb-19
+L-112-18/0	Cox, Nancy J.		Life Technologies	27-Feb-19
+L-112-18/0	Diaz, Maureen		Life Technologies	27-Feb-19
+L-112-18/0	Erdman, Dean D.		Life Technologies	27-Feb-19
+L-112-18/0	Hatcher, Cynthia P.		Life Technologies	27-Feb-19
+L-112-18/0	Klimov, Alexander I.		Life Technologies	27-Feb-19
+L-112-18/0	Lindstrom, Stephen		Life Technologies	27-Feb-19
+L-112-18/0	Loftin, Lamorris		Life Technologies	27-Feb-19
+L-112-18/0	Lu, Xiaoyan		Life Technologies	27-Feb-19
+L-112-18/0	Mayer, Leonard W.		Life Technologies	27-Feb-19
+L-112-18/0	McGee, Lesley		Life Technologies	27-Feb-19
+L-112-18/0	Sparks, Kansas		Life Technologies	27-Feb-19

(b) (3) (A), (b) (4), (b) (6)

(b) (3) (A), (b) (4), (b) (6)

+L-112-18/0	Tatti, Kathleen M.	(b)	Life Technologies	27-Feb-19
+L-112-18/0	Theodore, Mary J.	(4);	Life Technologies	27-Feb-19
+L-112-18/0	Thomas, Jennifer D.	(b)(6)	Life Technologies	27-Feb-19
+L-112-18/0	Tondella, Maria-Lucia		Life Technologies	27-Feb-19
+L-112-18/0	Wang, Xin		Life Technologies	27-Feb-19
+L-112-18/0	Winchell, Jonas M.		Life Technologies	27-Feb-19
+L-112-18/0	Wolff, Bernard		Life Technologies	27-Feb-19

**NIH Patent Licensing Activities
CDC
March 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-134-14/1	Anderson, Larry J.	(b)(4);	Millipore Corporation	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-134-14/1	Hierholzer, John C.	(b)(6)	Millipore Corporation	1-Mar-19						
+L-134-14/1	Tsou, Cecelia		Millipore Corporation	1-Mar-19						
+L-236-15/1	Ades, Edwin W.		ENTvantage Diagnostics, Inc.	4-Mar-19						
+L-236-15/1	Carlone, George M.		ENTvantage Diagnostics, Inc.	4-Mar-19						
+L-236-15/1	O'Connor, Steven		ENTvantage Diagnostics, Inc.	4-Mar-19						
+L-236-15/1	Russell, Harold		ENTvantage Diagnostics, Inc.	4-Mar-19						
+L-236-15/1	Sampson, Jacquelyn S.		ENTvantage Diagnostics, Inc.	4-Mar-19						
+L-236-15/1	Tharpe, Jean A.		ENTvantage Diagnostics, Inc.	4-Mar-19						
+L-142-14/2	Alisio, Carol H.		Life Technologies Corporation	4-Mar-19						
+L-142-14/2	Black, Charlotte M.		Life Technologies Corporation	4-Mar-19						
+L-142-14/2	Galland, Gale G.		Life Technologies Corporation	4-Mar-19						
+L-142-14/2	Moore, Deborah D.		Life Technologies Corporation	4-Mar-19						
+L-142-14/2	Phillips, Donald		Life Technologies Corporation	4-Mar-19						
+L-142-14/2	Reimer, Charles B.		Life Technologies Corporation	4-Mar-19						
+L-142-14/2	Wells, Thomas		Life Technologies Corporation	4-Mar-19						
+L-050-19/0	CDC		Fuller Laboratories	4-Mar-19						
+L-141-13/0	Castro, Arnold R.	(b)(4);	Arlington Scientific, Inc.	4-Mar-19						
+L-141-13/0	Morrill, William E.	(b)(6)	Arlington Scientific, Inc.	4-Mar-19						
+L-141-13/0	Pope, Victoria		Arlington Scientific, Inc.	4-Mar-19						
+L-141-13/0	Castro, Arnold R.		Arlington Scientific, Inc.	4-Mar-19						
+L-141-13/0	Morrill, William E.		Arlington Scientific, Inc.	4-Mar-19						
+L-141-13/0	Pope, Victoria		Arlington Scientific, Inc.	4-Mar-19						
+L-102-19/1	Rupprecht, Charles E.		OJCM BELVITUNIPHARM	7-Mar-19						
+L-102-19/1	Wu, Xianfu		OJCM BELVITUNIPHARM	7-Mar-19						
+L-102-19/1	Rupprecht, Charles E.		OJCM BELVITUNIPHARM	7-Mar-19						
+L-102-19/1	Wu, Xianfu		OJCM BELVITUNIPHARM	7-Mar-19						
+L-186-13/6	Chang, Gwong-Jen J.		DiaSorin Molecular	12-Mar-19						
+L-186-13/6	Roehrig, John T.		DiaSorin Molecular	12-Mar-19						
+L-017-17/0	Munoz-Jordon, Jorge L		Takeda Vaccines, Inc.	13-Mar-19						
+L-017-17/0	Santiago, Gilberto		Takeda Vaccines, Inc.	13-Mar-19						
+L-017-17/0	Vergne, Edgardo		Takeda Vaccines, Inc.	13-Mar-19						
+L-143-13/0	Cox, Nancy J.		Biosearch Technologies, Inc.	13-Mar-19						

+L-143-13/0	Klimov, Alexander I.	(b)(4);	Biosearch Technologies, Inc.	13-Mar-19	(b) (3) (A), (b) (4), (b) (6)
+L-143-13/0	Lindstrom, Stephen	(b)(6)	Biosearch Technologies, Inc.	13-Mar-19	
+L-143-13/0	Loftin, Lamorris		Biosearch Technologies, Inc.	13-Mar-19	
+L-014-14/0	Berman, LaShondra		Biosearch Technologies, Inc.	13-Mar-19	
+L-014-14/0	Emery, Shannon L.		Biosearch Technologies, Inc.	13-Mar-19	
+L-014-14/0	Lindstrom, Stephen		Biosearch Technologies, Inc.	13-Mar-19	
+L-014-14/0	Shu, Bo		Biosearch Technologies, Inc.	13-Mar-19	
+L-198-13/0	Fields, Patricia		Luminex Corporation	19-Mar-19	
+L-198-13/0	Leaumont, Collette F.		Luminex Corporation	19-Mar-19	
+L-198-13/0	McQuiston, John R.		Luminex Corporation	19-Mar-19	
+L-225-17/0	Chang, Gwong-Jen J.		InBios International, Inc.	21-Mar-19	
+L-225-17/0	Davis, Brent S.		InBios International, Inc.	21-Mar-19	
+L-225-17/0	Roehrig, John T.		InBios International, Inc.	21-Mar-19	
+L-225-17/0	Thibodeaux, Brett A.		InBios International, Inc.	21-Mar-19	
+L-225-17/0	CDC		InBios International, Inc.	21-Mar-19	
+L-225-17/0	CDC		InBios International, Inc.	21-Mar-19	
+L-123-18/0	Roehrig, John T.	(b)(4);	InBios International	21-Mar-19	
		(b)(6)			
+L-233-18/0	Bagarozzi, Dennis Anthony		InBios International, Inc.	21-Mar-19	
+L-233-18/0	Boyer, Anne E.		InBios International, Inc.	21-Mar-19	
+L-233-18/0	Goldstein, Jason Marc		InBios International, Inc.	21-Mar-19	
+L-233-18/0	Quinn, Conrad P.		InBios International, Inc.	21-Mar-19	
+L-149-14/1	Roehrig, John T.		Alere Inc.	22-Mar-19	
+L-149-14/1	Roehrig, John T.		Alere Inc.	22-Mar-19	
+L-180-13/4	Chang, Gwong-Jen J.		InBios International, Inc.	22-Mar-19	
+L-140-13/0	Lewis, Daniel M.		Alexeter Technologies	25-Mar-19	
+L-140-13/0	Schmechel, Detlef		Alexeter Technologies	25-Mar-19	
+L-161-14/1	CDC		ZeptoMetrix Corporation	26-Mar-19	
+L-210-14/2	CDC		ZeptoMetrix Corp.	26-Mar-19	
+L-125-14/1	CDC		ZeptoMetrix Corp.	26-Mar-19	

\$1,355,593.64	\$133,681.99	\$1,489,275.63	\$357,449.30	\$1,131,826.33
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
CIT
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-008-15/1	CIT		xMD Diagnostics, LLC	4-Oct-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-008-15/1 split between CIT; NCI; NICHD</i>										
L-111-06/0	CIT		ICAD Inc	10-Oct-18						
<i>Note: L-111-06/0 split between CC; CIT; NIDCD</i>										
+L-028-18/1	Cheng, Ruida	(b)(4);	Scanmed LLC	10-Oct-18						
+L-028-18/1	McAuliffe, Matthew	(b)(6)	Scanmed LLC	10-Oct-18						
<i>Note: L-028-18/1 split between CC; CIT; NCI</i>										

NIH Patent Licensing Activities
CIT
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
CIT
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-318-01/0	Pohida, Thomas J.	(b)(4); (b)	Arcturus	6-Dec-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-318-01/0 split between CIT; NIBIB; NICHD</i>										
+L-008-15/1	Pohida, Thomas J.	(b)(4); (b)	xMD Diagnostics, LLC	28-Dec-18						
<i>Note: L-008-15/1 split between CIT; NCI; NICHD</i>										

NIH Patent Licensing Activities
CIT
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-111-06/0	Malley, James	(b)(4); (b)	ICAD Inc	25-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-111-06/0	Wagner, Lynne M	(6)	ICAD Inc	25-Jan-19						
<i>Note: L-111-06/0 split between CC; CIT; NIDCD</i>										

NIH Patent Licensing Activities
 CIT
 February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-232-14/0	CIT		NanoString Technologies, Inc.	14-Feb-19						(b) (3) (A), (b) (4)
<i>Note: L-232-14/0 split between CIT; NCI</i>										
+L-232-14/0	CIT		NanoString Technologies, Inc.	20-Feb-19						
<i>Note: L-232-14/0 split between CIT; NCI</i>										

NIH Patent Licensing Activities
 CIT
 March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
					\$5,630.82	\$0.00	\$5,630.82		\$2,001.99	\$3,628.83

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 FDA
 October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
 FDA
 November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
 FDA
 December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
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L-001-15/2	FDA		Merck Sharp & Dohme, Corp.	20-Dec-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-001-15/2 split between FDA; NIAID</i>										
L-001-15/2	FDA		Merck Sharp & Dohme, Corp.	20-Dec-18						
<i>Note: L-001-15/2 split between FDA; NIAID</i>										
+L-217-16/0	Falgout, Barry	(b)(4);	Indian Immunologicals Ltd	20-Dec-18						
+L-217-16/0	Markoff, Lewis	(b)(6)	Indian Immunologicals Ltd	20-Dec-18						
<i>Note: L-217-16/0 split between FDA; NIAID</i>										
+L-089-07/0	Petricoin, Emanuel		Theranostics Health	24-Dec-18						
<i>Note: L-089-07/0 split between FDA; NCI</i>										
+L-046-17/1	Falgout, Barry		Medigen Vaccine Biologics Corp	26-Dec-18						
+L-046-17/1	Markoff, Lewis		Medigen Vaccine Biologics Corp	26-Dec-18						
<i>Note: L-046-17/1 split between FDA; NIAID</i>										
+L-046-17/1	Falgout, Barry		Medigen Vaccine Biologics Corp	26-Dec-18						
+L-046-17/1	Markoff, Lewis		Medigen Vaccine Biologics Corp	26-Dec-18						
<i>Note: L-046-17/1 split between FDA; NIAID</i>										

NIH Patent Licensing Activities
 FDA
 January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
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+L-035-13/0	Falgout, Barry	(b)(4);	GlaxoSmithKline	1-Jan-19	(b) (3) (A), (b) (4), (b) (6)
+L-035-13/0	Markoff, Lewis	(b)(6)	GlaxoSmithKline	1-Jan-19	
<i>Note: L-035-13/0 split between FDA; NIAID</i>					
+L-149-15/1	Falgout, Barry		Serum Institute of India Ltd.	1-Jan-19	
+L-149-15/1	Markoff, Lewis		Serum Institute of India Ltd.	1-Jan-19	
<i>Note: L-149-15/1 split between FDA; NIAID</i>					
+L-347-14/0	Donnelly, Raymond P.		Abcam, plc	18-Jan-19	
<i>Note: L-347-14/0 split between FDA; NCI</i>					
+L-114-09/0	Falgout, Barry		Co for Vaccine and Bio Productin	22-Jan-19	
+L-114-09/0	Markoff, Lewis		Co for Vaccine and Bio Productin	22-Jan-19	
<i>Note: L-114-09/0 split between FDA; NIAID</i>					
+L-080-06/3	FDA		Panacea Biotech Ltd.	29-Jan-19	
<i>Note: L-080-06/3 split between FDA; NIAID</i>					
+L-149-15/1	FDA		Serum Institute of India Ltd.	29-Jan-19	
<i>Note: L-149-15/1 split between FDA; NIAID</i>					

NIH Patent Licensing Activities
FDA
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-001-15/2	Falgout, Barry	(b)(4);	Merck Sharp & Dohme, Corp.	11-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-001-15/2	Markoff, Lewis	(b)(6)	Merck Sharp & Dohme, Corp.	11-Feb-19						
<i>Note: L-001-15/2 split between FDA; NIAID</i>										

NIH Patent Licensing Activities
FDA
March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-111-13/0	Donnelly, Raymond P.	(b)(4);	EMD Millipore Corp.	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-111-13/0 split between FDA; NCI</i>										
+L-119-09/2	FDA		Fundacao Butantan	1-Mar-19						
<i>Note: L-119-09/2 split between FDA; NIAID</i>										
+L-119-09/2	Falgout, Barry	(b)	Fundacao Butantan	1-Mar-19						
+L-119-09/2	Markoff, Lewis	(4);	Fundacao Butantan	1-Mar-19						
<i>Note: L-119-09/2 split between FDA; NIAID</i>										
+L-080-06/3	Falgout, Barry	(b)(6)	Panacea Biotech Ltd.	5-Mar-19						

+L-080-06/3 Markoff, Lewis
Note: L-080-06/3 split between FDA; NIAID

(b)(4);
(b)(6) Panacea Biotech Ltd.

5-Mar-19

+L-079-08/0 FDA
Note: L-079-08/0 split between FDA; NCI

Theranstics Health

13-Mar-19

(b) (3) (A), (b) (4), (b) (6)

\$113,931.60	\$0.00	\$113,931.60	\$23,291.14	\$90,640.46
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NCATS
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-208-15/0	NCATS		Virotas Biopharmaceuticals, LLC	11-Oct-18						(b) (3) (A), (b) (4)
<i>Note: L-208-15/0 split between NCATS; NIDDK</i>										
L-049-14/1	NCATS		Rockefeller University	16-Oct-18						
L-055-15/0	NCATS		Lysosomal Therapeutics, Inc.	16-Oct-18						
<i>Note: L-055-15/0 split between NCATS; NHGRI</i>										

NIH Patent Licensing Activities
NCATS
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-248-18/0	Auld, Douglas S.	(b)(4); (b)(6)	TeamedOn International, Inc	13-Nov-18						(b) (3) (A), (b) (4), (b) (6)
+L-248-18/0	Boxer, Matthew	(6)	TeamedOn International, Inc	13-Nov-18						
+L-248-18/0	Inglese, James		TeamedOn International, Inc	13-Nov-18						
+L-248-18/0	Jiang, Jian-kang		TeamedOn International, Inc	13-Nov-18						
+L-248-18/0	Skoumbourdis, Amanda P.		TeamedOn International, Inc	13-Nov-18						
+L-248-18/0	Thomas, Craig J.		TeamedOn International, Inc	13-Nov-18						
+L-169-16/1	NCATS		TeamedOn International, LLC	27-Nov-18						

NIH Patent Licensing Activities
NCATS
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-055-15/1	Marugan, Juan J.	(b)(4); (b)(6)	Lysosomal Therapeutics, Inc.	6-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-055-15/1	Patnaik, Samarjit	(b)(6)	Lysosomal Therapeutics, Inc.	6-Dec-18						
+L-055-15/1	Southall, Noel T.		Lysosomal Therapeutics, Inc.	6-Dec-18						
+L-055-15/1	Zheng, Wei		Lysosomal Therapeutics, Inc.	6-Dec-18						
<i>Note: L-055-15/1 split between NCATS; NHGRI</i>										
+L-134-15/0	NCATS		Subrimed, Inc	10-Dec-18						
<i>Note: L-134-15/0 split between NCATS; NHGRI</i>										
+L-076-18/0	Inglese, James	(b)(4); (b)(6)	Lead Discovery Center	14-Dec-18						
+L-076-18/0	Jang, Sung-Wook	(6)	Lead Discovery Center	14-Dec-18						
+L-076-18/0	Svaren, John		Lead Discovery Center	14-Dec-18						

(b) (3) (A), (b) (4), (b) (6)

+L-134-15/0	Austin, Christopher P.	(b)(4);	Subrimed, Inc	27-Dec-18
+L-134-15/0	Chen, Catherine	(b)(6)	Subrimed, Inc	27-Dec-18
+L-134-15/0	Marugan, Juan J.		Subrimed, Inc	27-Dec-18
+L-134-15/0	Southall, Noel T.		Subrimed, Inc	27-Dec-18
+L-134-15/0	Zheng, Wei		Subrimed, Inc	27-Dec-18

Note: L-134-15/0 split between NCATS; NHGRI

+L-134-15/0	NCATS		Subrimed, Inc	27-Dec-18
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Note: L-134-15/0 split between NCATS; NHGRI

+L-134-15/0	NCATS		Subrimed, Inc	28-Dec-18
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Note: L-134-15/0 split between NCATS; NHGRI

NIH Patent Licensing Activities

NCATS

January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total January	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
+L-032-12/0	NCATS		Agios Pharmaceuticals Inc	9-Jan-19						(b) (3) (A), (b) (4)
Note: L-032-12/0 split between NCATS; NHGRI										
+L-032-12/0	NCATS		Agios Pharmaceuticals Inc	9-Jan-19						
Note: L-032-12/0 split between NCATS; NHGRI										

NIH Patent Licensing Activities

NCATS

February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total February	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
+L-080-15/0	Cheng, Chih-Chien (Ken)	(b)(4);	Promega Corporation	26-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-080-15/0	Hasson, Samuel A.	(b)(6)	Promega Corporation	26-Feb-19						
+L-080-15/0	Inglese, James		Promega Corporation	26-Feb-19						

NIH Patent Licensing Activities

NCATS

March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total March	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
+L-116-13/0	Auld, Douglas S.	(b)(4);	EMD Millipore Corp.	22-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-116-13/0	Boxer, Matthew	(b)(6)	EMD Millipore Corp.	22-Mar-19						
+L-116-13/0	Inglese, James		EMD Millipore Corp.	22-Mar-19						
+L-116-13/0	Jiang, Jian-kang		EMD Millipore Corp.	22-Mar-19						
+L-116-13/0	Shen, Min		EMD Millipore Corp.	22-Mar-19						
+L-116-13/0	Skoumbourdis, Amanda P.		EMD Millipore Corp.	22-Mar-19						

+L-116-13/0 Thomas, Craig J.

(b)(4); (b) EMD Millipore Corp.

22-Mar-19

(b) (3) (A), (b) (4), (b) (6)

Note: L-116-13/0 split between NCATS; NHGRI

\$51 420.00	\$83 498.16	\$134 918.16	\$13 000.00	\$121 918.16
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 NCI
 October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
+L-254-18/0	Reynolds, Della Anne	(b)(4);	Applied Biological Materials Inc	17-Sep-18						(b) (3) (A), (b) (4), (b) (6)
+L-254-18/0	Young, Howard A.	(b)(6)	Applied Biological Materials Inc	17-Sep-18						
+L-130-94/2	King, Charles R.		Santa Cruz Biotechnology	18-Sep-18						
+L-130-94/2	Liotta, Lance		Santa Cruz Biotechnology	18-Sep-18						
+L-130-94/2	Steege, Patricia S.		Santa Cruz Biotechnology	18-Sep-18						
+L-183-99/0	Aaronson, Stuart A.		Vysis, Inc.	18-Sep-18						
+L-183-99/0	King, Charles R.		Vysis, Inc.	18-Sep-18						
+L-183-99/0	Kraus, (b) (6) Matthias		Vysis, Inc.	18-Sep-18						
+L-015-84/8	Chang, Nancy T.		Abbott Laboratories	18-Sep-18						
+L-015-84/8	Crowl, Robert		Abbott Laboratories	18-Sep-18						
+L-015-84/8	Fisher, Amanda G.		Abbott Laboratories	18-Sep-18						
+L-015-84/8	Gallo, Robert C.		Abbott Laboratories	18-Sep-18						
+L-015-84/8	Hahn, Beatrice		Abbott Laboratories	18-Sep-18						
+L-015-84/8	(b) (4)		Abbott Laboratories	18-Sep-18						
+L-015-84/8	Popovic, Mikulas		Abbott Laboratories	18-Sep-18						
+L-015-84/8	Reddy, E. Premkumar.		Abbott Laboratories	18-Sep-18						
+L-015-84/8	Sarnagadharan, Mangalasseril		Abbott Laboratories	18-Sep-18						
+L-015-84/8	Shaw, George M		Abbott Laboratories	18-Sep-18						
+L-015-84/8	Wong-Staal, Flossie		Abbott Laboratories	18-Sep-18						
+L-232-18/0	Hanada, Kenichi		Allogene Therapeutics	18-Sep-18						
+L-232-18/0	Yang, James C		Allogene Therapeutics	18-Sep-18						
+L-232-18/0	Yu, Zhiya		Allogene Therapeutics	18-Sep-18						
+L-232-18/0	Hanada, Kenichi		Allogene Therapeutics	18-Sep-18						
+L-232-18/0	Yang, James C		Allogene Therapeutics	18-Sep-18						
+L-232-18/0	Yu, Zhiya		Allogene Therapeutics	18-Sep-18						
+L-273-17/0	Bonomi, Carrie A.		Kyowa Hakko Kirin Co., Ltd	20-Sep-18						
+L-273-17/0	Borgel, Suzanne D.		Kyowa Hakko Kirin Co., Ltd	20-Sep-18						
+L-273-17/0	Dougherty, Kelly		Kyowa Hakko Kirin Co., Ltd	20-Sep-18						
+L-273-17/0	Hollingshead, Melinda G.		Kyowa Hakko Kirin Co., Ltd	20-Sep-18						
+L-166-18/0	Bonomi, Carrie A.		genOway S.A.	20-Sep-18						
+L-166-18/0	Borgel, Suzanne D.		genOway S.A.	20-Sep-18						
+L-166-18/0	Dougherty, Kelly		genOway S.A.	20-Sep-18						
+L-166-18/0	Hollingshead, Melinda G.		genOway S.A.	20-Sep-18						
+L-166-18/0	Bonomi, Carrie A.		genOway S.A.	20-Sep-18						
+L-166-18/0	Borgel, Suzanne D.		genOway S.A.	20-Sep-18						
+L-166-18/0	Dougherty, Kelly		genOway S.A.	20-Sep-18						
+L-166-18/0	Hollingshead, Melinda G.		genOway S.A.	20-Sep-18						
+L-260-18/0	Michie, Megan Suzanne		BD Biosciences	21-Sep-18						
+L-260-18/0	Schnermann, Martin		BD Biosciences	21-Sep-18						
+L-010-09/1	Felber, Barbara K.		Taimed Biologics USA	24-Sep-18						
+L-010-09/1	Pavlakis, George N		Taimed Biologics USA	24-Sep-18						

+L-108-15/0	NCI	Lion Biotechnologies	25-Sep-18
+L-154-97/2	Mason, Llewellyn H.	(b)(4); PharMingen, Inc.	25-Sep-18
+L-154-97/2	Ortaldo, John R.	(b)(6) PharMingen, Inc.	25-Sep-18
+L-097-00/2	Austin, Faye C.	BD Biosciences, PharMingen	25-Sep-18
+L-097-00/2	Colcher, David	BD Biosciences, PharMingen	25-Sep-18
+L-097-00/2	Hand, Patricia H	BD Biosciences, PharMingen	25-Sep-18
+L-097-00/2	Nuti, Marianna	BD Biosciences, PharMingen	25-Sep-18
+L-097-00/2	Schlom, Jeffrey	BD Biosciences, PharMingen	25-Sep-18
+L-203-01/0	Allegra, Carmen	ZYMED LABORATORIES, INC.	26-Sep-18
+L-203-01/0	Chabner, Bruce A	ZYMED LABORATORIES, INC.	26-Sep-18
+L-203-01/0	Johnston, Patrick G.	ZYMED LABORATORIES, INC.	26-Sep-18
+L-203-01/0	Liang, Chi-Ming	ZYMED LABORATORIES, INC.	26-Sep-18
+L-224-18/0	Bonomi, Carrie A.	Tolero Pharmaceuticals, Inc.	28-Sep-18
+L-224-18/0	Borgel, Suzanne D.	Tolero Pharmaceuticals, Inc.	28-Sep-18
+L-224-18/0	Dougherty, Kelly	Tolero Pharmaceuticals, Inc.	28-Sep-18
+L-224-18/0	Hollingshead, Melinda G.	Tolero Pharmaceuticals, Inc.	28-Sep-18
+L-224-18/0	Bonomi, Carrie A.	Tolero Pharmaceuticals, Inc.	28-Sep-18
+L-224-18/0	Borgel, Suzanne D.	Tolero Pharmaceuticals, Inc.	28-Sep-18
+L-224-18/0	Dougherty, Kelly	Tolero Pharmaceuticals, Inc.	28-Sep-18
+L-224-18/0	Hollingshead, Melinda G.	Tolero Pharmaceuticals, Inc.	28-Sep-18
+L-089-16/3	NCI	H2Bio	2-Oct-18
+L-089-16/3	Dimitrov, Dimiter S.	(b)(4); H2Bio	2-Oct-18
+L-089-16/3	Feng, Mingqian	(b)(6) H2Bio	2-Oct-18
+L-089-16/3	Gao, Wei	H2Bio	2-Oct-18
+L-089-16/3	Ho, Mitchell	H2Bio	2-Oct-18
+L-089-16/3	Pastan, Ira H	H2Bio	2-Oct-18
+L-089-16/3	Tang, Zhewei	H2Bio	2-Oct-18
+L-259-18/0	Bonomi, Carrie A.	Oncoveda Cancer Research Center	2-Oct-18
+L-259-18/0	Borgel, Suzanne D.	Oncoveda Cancer Research Center	2-Oct-18
+L-259-18/0	Dougherty, Kelly	Oncoveda Cancer Research Center	2-Oct-18
+L-259-18/0	Hollingshead, Melinda G.	Oncoveda Cancer Research Center	2-Oct-18
+L-259-18/0	Bonomi, Carrie A.	Oncoveda Cancer Research Center	2-Oct-18
+L-259-18/0	Borgel, Suzanne D.	Oncoveda Cancer Research Center	2-Oct-18
+L-259-18/0	Dougherty, Kelly	Oncoveda Cancer Research Center	2-Oct-18
+L-259-18/0	Hollingshead, Melinda G.	Oncoveda Cancer Research Center	2-Oct-18
+L-250-17/0	Bonomi, Carrie A.	Aragen Bioscience, Inc.	4-Oct-18
+L-250-17/0	Borgel, Suzanne D.	Aragen Bioscience, Inc.	4-Oct-18
+L-250-17/0	Dougherty, Kelly	Aragen Bioscience, Inc.	4-Oct-18
+L-250-17/0	Hollingshead, Melinda G.	Aragen Bioscience, Inc.	4-Oct-18
+L-008-15/1	NCI	xMD Diagnostics, LLC	4-Oct-18
<i>Note: L-008-15/1 split between CIT; NCI; NICHD</i>			
+L-273-14/0	Chang, Nancy T.	(b)(4); Grifols Worldwide Operations Ltd.	9-Oct-18
+L-273-14/0	Crowl, Robert	(b)(6) Grifols Worldwide Operations Ltd.	9-Oct-18
+L-273-14/0	Fisher, Amanda G.	Grifols Worldwide Operations Ltd.	9-Oct-18
+L-273-14/0	Gallo, Robert C.	Grifols Worldwide Operations Ltd.	9-Oct-18
+L-273-14/0	Hahn, Beatrice	Grifols Worldwide Operations Ltd.	9-Oct-18
+L-273-14/0	Popovic, Mikulas	Grifols Worldwide Operations Ltd.	9-Oct-18

+L-273-14/0	Reddy, E. Premkumar.	(b)(4); (b)(6)	Grifols Worldwide Operations Ltd.	9-Oct-18
+L-273-14/0	Sarngadharan, Mangalasseril		Grifols Worldwide Operations Ltd.	9-Oct-18
+L-273-14/0	Shaw, George M		Grifols Worldwide Operations Ltd.	9-Oct-18
+L-273-14/0	Wong-Staal, Flossie		Grifols Worldwide Operations Ltd.	9-Oct-18
+L-333-01/1	Gallo, Robert C.		ZeptoMetrix Corporation	9-Oct-18
+L-333-01/1	Lusso, Paolo		ZeptoMetrix Corporation	9-Oct-18
+L-244-18/0	Gao, Wei		Navrogen Inc	9-Oct-18
+L-244-18/0	Hassan, Raffit		Navrogen Inc	9-Oct-18
+L-244-18/0	Ho, Mitchell		Navrogen Inc	9-Oct-18
+L-244-18/0	Pastan, Ira H		Navrogen Inc	9-Oct-18
+L-244-18/0	Phung, Yen T.	Navrogen Inc	9-Oct-18	
+L-244-18/0	Zhang, Yifan	Navrogen Inc	9-Oct-18	
+L-273-18/0	Bonomi, Carrie A.	PMI Biopharma Solutions, LLC.	10-Oct-18	
+L-273-18/0	Borgel, Suzanne D.	PMI Biopharma Solutions, LLC.	10-Oct-18	
+L-273-18/0	Dougherty, Kelly	PMI Biopharma Solutions, LLC.	10-Oct-18	
+L-273-18/0	Hollingshead, Melinda G.	PMI Biopharma Solutions, LLC.	10-Oct-18	
+L-237-18/0	Bonomi, Carrie A.	Inovio Pharmaceuticals, Inc.	10-Oct-18	
+L-237-18/0	Borgel, Suzanne D.	Inovio Pharmaceuticals, Inc.	10-Oct-18	
+L-237-18/0	Dougherty, Kelly	Inovio Pharmaceuticals, Inc.	10-Oct-18	
+L-237-18/0	Hollingshead, Melinda G.	Inovio Pharmaceuticals, Inc.	10-Oct-18	
+L-237-18/0	Bonomi, Carrie A.	Inovio Pharmaceuticals, Inc.	10-Oct-18	
+L-237-18/0	Borgel, Suzanne D.	Inovio Pharmaceuticals, Inc.	10-Oct-18	
+L-237-18/0	Dougherty, Kelly	Inovio Pharmaceuticals, Inc.	10-Oct-18	
+L-237-18/0	Hollingshead, Melinda G.	Inovio Pharmaceuticals, Inc.	10-Oct-18	
+L-028-18/1	Choyke, Peter L	Scanmed LLC	10-Oct-18	
+L-028-18/1	Greer, Matthew D.	Scanmed LLC	10-Oct-18	
+L-028-18/1	Mertan, Francesca	Scanmed LLC	10-Oct-18	
+L-028-18/1	Sonalee Gaur, Sonia	Scanmed LLC	10-Oct-18	
+L-028-18/1	Turkbey, Ismail B.	Scanmed LLC	10-Oct-18	
<i>Note: L-028-18/1 split between CC; CIT; NCI</i>				
+L-080-93/3	Hathcock, Karen	BD Biosciences - BD PharMingen, Inc.	10-Oct-18	
+L-080-93/3	Hodes, Richard	BD Biosciences - BD PharMingen, Inc.	10-Oct-18	
+L-080-93/3	Laszlo, Gloria	BD Biosciences - BD PharMingen, Inc.	10-Oct-18	
+L-080-93/3	Hathcock, Karen	BD Biosciences - BD PharMingen, Inc.	10-Oct-18	
+L-080-93/3	Hodes, Richard	BD Biosciences - BD PharMingen, Inc.	10-Oct-18	
+L-080-93/3	Laszlo, Gloria	BD Biosciences - BD PharMingen, Inc.	10-Oct-18	
+L-138-05/2	Chang, Kai	Santa Cruz Biotechnology Inc	12-Oct-18	
+L-138-05/2	Pastan, Ira H	Santa Cruz Biotechnology Inc	12-Oct-18	
+L-138-05/2	Willingham, Mark C.	Santa Cruz Biotechnology Inc	12-Oct-18	
+L-109-18/1	(b) (4)	StrideBio	12-Oct-18	
+L-109-18/1	Esposito, Dominic	StrideBio	12-Oct-18	
+L-109-18/1	Hopkins, Ralph F.	StrideBio	12-Oct-18	
+L-109-18/1	Roberts, Veronica Ann	StrideBio	12-Oct-18	
+L-109-18/1	(b) (4)	StrideBio	12-Oct-18	
+L-109-18/1	Esposito, Dominic	StrideBio	12-Oct-18	
+L-109-18/1	Hopkins, Ralph F.	StrideBio	12-Oct-18	
+L-109-18/1	Roberts, Veronica Ann	StrideBio	12-Oct-18	

				(b) (3) (A), (b) (4), (b) (6)
+L-108-18/1	Esposito, Dominic	(b)(4);	StrideBio	12-Oct-18
+L-108-18/1	Grose, Carissa L.	(b)(6)	StrideBio	12-Oct-18
+L-108-18/1	Esposito, Dominic		StrideBio	12-Oct-18
+L-108-18/1	Grose, Carissa L.		StrideBio	12-Oct-18
+L-249-18/0	NCI		Morphiex Biotherapeutics	15-Oct-18
+L-274-18/0	Gros, Alena		Cellular Biomedicine Group, Inc.	15-Oct-18
+L-274-18/0	Rosenberg, Steven A.		Cellular Biomedicine Group, Inc.	15-Oct-18
+L-274-18/0	Gros, Alena		Cellular Biomedicine Group, Inc.	15-Oct-18
+L-274-18/0	Rosenberg, Steven A.		Cellular Biomedicine Group, Inc.	15-Oct-18
+L-061-14/0	Hwu, Patrick		Cabaret Biotech Ltd.	16-Oct-18
+L-061-14/0	Rosenberg, Steven A.		Cabaret Biotech Ltd.	16-Oct-18
+L-261-18/0	Bonomi, Carrie A.		CureVac AG	16-Oct-18
+L-261-18/0	Borgel, Suzanne D.		CureVac AG	16-Oct-18
+L-261-18/0	Dougherty, Kelly		CureVac AG	16-Oct-18
+L-261-18/0	Hollingshead, Melinda G.		CureVac AG	16-Oct-18
+L-089-16/3	NCI		H2Bio	16-Oct-18
+L-331-17/0	NCI		Istari Oncology Inc	16-Oct-18
+L-104-12/0	NCI		Radiation Control Technologies	17-Oct-18
+L-104-12/0	NCI		Radiation Control Technologies	17-Oct-18
+L-104-12/0	NCI		Radiation Control Technologies	17-Oct-18
+L-104-12/0	NCI		Radiation Control Technologies	17-Oct-18
+L-104-12/0	NCI		Radiation Control Technologies	17-Oct-18
+L-104-12/0	NCI		Radiation Control Technologies	17-Oct-18
+L-104-12/0	NCI		Radiation Control Technologies	17-Oct-18
+L-104-12/0	NCI		Radiation Control Technologies	17-Oct-18
+L-104-12/0	NCI		Radiation Control Technologies	17-Oct-18
+L-068-04/2	Bartlett, David L	(b)(4);	Jennerex, LLC	17-Oct-18
+L-068-04/2	McCart, Judith Andrea	(b)(6)	Jennerex, LLC	17-Oct-18
<i>Note: L-068-04/2 split between NCI; NIAID</i>				
+L-107-13/1	NCI		OPUS BIO INC	22-Oct-18
+L-003-19/0	Michie, Megan Suzanne	(b)(4);	Maravai Life Sciences Holding, Inc	22-Oct-18
+L-003-19/0	Schnermann, Martin	(b)(6)	Maravai Life Sciences Holding, Inc	22-Oct-18
+L-261-18/0	Bonomi, Carrie A.		CureVac AG	23-Oct-18
+L-261-18/0	Borgel, Suzanne D.		CureVac AG	23-Oct-18
+L-261-18/0	Dougherty, Kelly		CureVac AG	23-Oct-18
+L-261-18/0	Hollingshead, Melinda G.		CureVac AG	23-Oct-18
+L-280-18/0	Bonomi, Carrie A.		ORIC Pharmaceuticals, Inc.	23-Oct-18
+L-280-18/0	Borgel, Suzanne D.		ORIC Pharmaceuticals, Inc.	23-Oct-18
+L-280-18/0	Dougherty, Kelly		ORIC Pharmaceuticals, Inc.	23-Oct-18

+L-280-18/0	Hollingshead, Melinda G.	(b)(4);	ORIC Pharmaceuticals, Inc.	23-Oct-18	(b) (3) (A), (b) (4), (b) (6)
+L-178-05/1	NCI		BioGemex Ltd	24-Oct-18	
+L-238-18/0	Bonomi, Carrie A.	(b)(4);	Vividion Therapeutics, Inc.	24-Oct-18	
+L-238-18/0	Borgel, Suzanne D.	(b)(6)	Vividion Therapeutics, Inc.	24-Oct-18	
+L-238-18/0	Dougherty, Kelly		Vividion Therapeutics, Inc.	24-Oct-18	
+L-238-18/0	Hollingshead, Melinda G.		Vividion Therapeutics, Inc.	24-Oct-18	
+L-225-18/0	Schlom, Jeffrey		Incyte Corporation	26-Oct-18	
+L-329-17/0	NCI		Abpro	26-Oct-18	
+L-075-16/0	NCI		Lentigen Corporation	29-Oct-18	
+L-031-07/2	Aaronson, Stuart A.	(b)(4);	anta Cruz Biotechnology	30-Oct-18	
+L-031-07/2	Lacal, Juan C.	(b)(6)	anta Cruz Biotechnology	30-Oct-18	
+L-084-18/0	Bagni- Beyer, Rachel K.		Warp Drive Bio	30-Oct-18	
+L-084-18/0	(b) (4)		Warp Drive Bio	30-Oct-18	
+L-084-18/0	Holderfield, Matthew T.		Warp Drive Bio	30-Oct-18	
+L-084-18/0	Soppet, Dan		Warp Drive Bio	30-Oct-18	

NIH Patent Licensing Activities
 NCI
 November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-265-17/1	Hanada, Kenichi	(b)(4);	Pfizer, Inc.	1-Nov-18						(b) (3) (A), (b) (4), (b) (6)
+L-265-17/1	Yang, James C	(b)(6)	Pfizer, Inc.	1-Nov-18						
+L-265-17/1	Yu, Zhiya		Pfizer, Inc.	1-Nov-18						
+L-064-11/0	Barry, Todd		Eptiomics Inc	1-Nov-18						
+L-064-11/0	Rosenwald, Andreas		Eptiomics Inc	1-Nov-18						
+L-064-11/0	Staudt, Louis M		Eptiomics Inc	1-Nov-18						
+L-064-11/0	Wiestner, Adrian		Eptiomics Inc	1-Nov-18						
+L-064-11/0	Wilson, Wyndham H.		Eptiomics Inc	1-Nov-18						
+L-188-16/0	NCI		Heliome Biotech	1-Nov-18						
+L-014-19/0	Bonomi, Carrie A.	(b)(4);	ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Borgel, Suzanne D.	(b)(6)	ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Dougherty, Kelly		ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Hollingshead, Melinda G.		ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Bonomi, Carrie A.		ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Borgel, Suzanne D.		ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Dougherty, Kelly		ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Hollingshead, Melinda G.		ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Bonomi, Carrie A.		ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Borgel, Suzanne D.		ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Dougherty, Kelly		ABL Bio Inc.	1-Nov-18						
+L-014-19/0	Hollingshead, Melinda G.		ABL Bio Inc.	1-Nov-18						
+L-230-18/0	Jelinek, Ivett		Absolute Antibody Ltd.	2-Nov-18						

+L-230-18/0	Segal, David M.	(b)(4);	Absolute Antibody Ltd.	2-Nov-18
+L-230-18/0	Wang, Yan	(b)(6)	Absolute Antibody Ltd.	2-Nov-18
+L-165-99/1	Crowl, Robert		Trinity Biotech	5-Nov-18
+L-165-99/1	Gallo, Robert C.		Trinity Biotech	5-Nov-18
+L-165-99/1	(b) (4)		Trinity Biotech	5-Nov-18
+L-165-99/1	Popovic, Mikulas		Trinity Biotech	5-Nov-18
+L-165-99/1	Reddy, E. Premkumar.		Trinity Biotech	5-Nov-18
+L-165-99/1	Sarngadharan, Mangalasseril		Trinity Biotech	5-Nov-18
+L-165-99/1	Shaw, George M		Trinity Biotech	5-Nov-18
+L-165-99/1	Wong-Staal, Flossie		Trinity Biotech	5-Nov-18
+L-121-08/0	NCI		Medtronic Inc	6-Nov-18
<i>Note: L-121-08/0 split between NCI; NINDS</i>				
+L-057-09/5	Aplan, Peter D.	(b)(4);	Acceleron Pharma	6-Nov-18
+L-057-09/5	Lin, Ying-Wei	(b)(6)	Acceleron Pharma	6-Nov-18
+L-057-09/5	Slape, Christopher I.		Acceleron Pharma	6-Nov-18
+L-057-09/5	Zhang, ZhenHua		Acceleron Pharma	6-Nov-18
+L-143-18/0	NCI		Geneius Biotechnology, Inc	6-Nov-18
<i>Note: L-143-18/0 split between CC; NCI</i>				
+L-035-19/0	Greiner, John W.	(b)(4);	EnGene Inc.	6-Nov-18
+L-035-19/0	Schlom, Jeffrey	(b)(6)	EnGene Inc.	6-Nov-18
+L-174-16/0	Costantino, Nina		BP Technology Ventures Inc.	7-Nov-18
+L-174-16/0	Court, Donald		BP Technology Ventures Inc.	7-Nov-18
+L-174-16/0	Datta, Simanti		BP Technology Ventures Inc.	7-Nov-18
+L-218-16/1	NCI		Kite Pharma, Inc	9-Nov-18
+L-077-15/2	NCI		Kite Pharma, Inc.	9-Nov-18
+L-068-13/2	NCI		Kite Pharma, Inc.	9-Nov-18
+L-092-12/2	Bergamaschi, Cristina	(b)(4);	Admune Therapeutics LLC	9-Nov-18
+L-092-12/2	Felber, Barbara K.	(b)(6)	Admune Therapeutics LLC	9-Nov-18
+L-092-12/2	Pavlakis, George N		Admune Therapeutics LLC	9-Nov-18
+L-092-12/2	Valentin, Antonio		Admune Therapeutics LLC	9-Nov-18
+L-023-09/2	Waugh, David		Takeda Pharmaceutical	13-Nov-18
+L-013-19/0	Dimitrov, Dimiter S.		Lentigen Corporation	13-Nov-18
+L-013-19/0	Zhu, Zhongyu		Lentigen Corporation	13-Nov-18
+L-013-19/0	Dimitrov, Dimiter S.		Lentigen Corporation	13-Nov-18
+L-013-19/0	Zhu, Zhongyu		Lentigen Corporation	13-Nov-18
+L-108-09/0	Conrads, Thomas P		Beckman Coulter	14-Nov-18
+L-108-09/0	Issaq, Haleem J.		Beckman Coulter	14-Nov-18
+L-108-09/0	Janini, George		Beckman Coulter	14-Nov-18
+L-108-09/0	Veenstra, Timothy D		Beckman Coulter	14-Nov-18
+L-108-09/0	Wilkens, Kenneth L.		Beckman Coulter	14-Nov-18
+L-254-16/1	Lee, Choosik		PHS Technologies Group, LLC	14-Nov-18
+L-056-17/0	Schlom, Jeffrey		F-star Biotechnology Ltd	16-Nov-18

(b) (3) (A), (b) (4), (b) (6)

+L-220-01/0	Erickson, John W.	(b)(4);	Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	Gulnik, Sergei V.	(b)(6)	Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	Mitsuya, Hiroaki		Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	(b) (4)		Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	Erickson, John W.		Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	Gulnik, Sergei V.		Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	Mitsuya, Hiroaki		Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	(b) (4)		Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	Erickson, John W.		Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	Gulnik, Sergei V.		Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	Mitsuya, Hiroaki		Tibotec Pharm Ltd.	16-Nov-18
+L-220-01/0	(b) (4)		Tibotec Pharm Ltd.	16-Nov-18
+L-117-95/2	Hathcock, Karen		Southern Biotechnology Associates, Inc.	16-Nov-18
+L-117-95/2	Hodes, Richard		Southern Biotechnology Associates, Inc.	16-Nov-18
+L-117-95/2	Laszlo, Gloria		Southern Biotechnology Associates, Inc.	16-Nov-18
<i>Note: L-117-95/2 split between NCI; NIA</i>				
+L-018-12/1	Aaronson, Stuart A.		DNAtrix, Inc.	20-Nov-18
+L-018-12/1	(b) (6) Donald J. Giard		DNAtrix, Inc.	20-Nov-18
+L-018-12/1	Parks, Wade P		DNAtrix, Inc.	20-Nov-18
+L-039-11/0	Onda, Masanori		Rockland Immunochemicals, Inc.	20-Nov-18
+L-039-11/0	Pastan, Ira H		Rockland Immunochemicals, Inc.	20-Nov-18
+L-006-19/0	Gazdar, Adi F.		Genentech, Inc	21-Nov-18
+L-006-19/0	Johnson, Bruce E		Genentech, Inc	21-Nov-18
+L-006-19/0	Kaye, Frederic J		Genentech, Inc	21-Nov-18
+L-006-19/0	Kheif, Samir N.		Genentech, Inc	21-Nov-18
+L-006-19/0	Minna, John D.		Genentech, Inc	21-Nov-18
+L-006-19/0	Oie, Herbert K		Genentech, Inc	21-Nov-18
+L-006-19/0	Pass, Harvey I.		Genentech, Inc	21-Nov-18
+L-279-18/0	Bera, Tapan K		Beoro Therapeutics, GmbH	21-Nov-18
+L-279-18/0	Fitzgerald, David J.		Beoro Therapeutics, GmbH	21-Nov-18
+L-279-18/0	Pastan, Ira H		Beoro Therapeutics, GmbH	21-Nov-18
+L-279-18/0	Weldon, John		Beoro Therapeutics, GmbH	21-Nov-18
+L-279-18/0	NCI		Beoro Therapeutics, GmbH	21-Nov-18
+L-046-19/0	Bonomi, Carrie A.	(b)(4);	Dragonfly Therapeutics	21-Nov-18
+L-046-19/0	Borgel, Suzanne D.	(b)(6)	Dragonfly Therapeutics	21-Nov-18
+L-046-19/0	Dougherty, Kelly		Dragonfly Therapeutics	21-Nov-18
+L-046-19/0	Hollingshead, Melinda G.		Dragonfly Therapeutics	21-Nov-18
+L-046-19/0	Schlom, Jeffrey		Dragonfly Therapeutics	21-Nov-18
+L-009-18/0	Copeland, Neal		Spybiotech Limited	22-Nov-18
+L-009-18/0	Costantino, Nina		Spybiotech Limited	22-Nov-18
+L-009-18/0	Court, Donald		Spybiotech Limited	22-Nov-18
+L-009-18/0	Ellis, Hilary Moyed		Spybiotech Limited	22-Nov-18
+L-009-18/0	Jenkins Copeland, Nancy A		Spybiotech Limited	22-Nov-18
+L-009-18/0	Lee, E-Chiang		Spybiotech Limited	22-Nov-18
+L-009-18/0	Sharan, Shyam K.		Spybiotech Limited	22-Nov-18
+L-009-18/0	Swaminathan, Srividya		Spybiotech Limited	22-Nov-18
+L-009-18/0	Warming, Soren		Spybiotech Limited	22-Nov-18
+L-009-18/0	Yu, Daiguan		Spybiotech Limited	22-Nov-18

(b) (3) (A), (b) (4), (b) (6)

+L-105-18/0	Bonomi, Carrie A.	(b)(4);	Chugai	23-Nov-18
+L-105-18/0	Borgel, Suzanne D.	(b)(6)	Chugai	23-Nov-18
+L-105-18/0	Dougherty, Kelly		Chugai	23-Nov-18
+L-105-18/0	Hollingshead, Melinda G.		Chugai	23-Nov-18
+L-006-19/0	Gazdar, Adi F.		Genentech, Inc	26-Nov-18
+L-006-19/0	Johnson, Bruce E		Genentech, Inc	26-Nov-18
+L-006-19/0	Kaye, Frederic J		Genentech, Inc	26-Nov-18
+L-006-19/0	Kheif, Samir N.		Genentech, Inc	26-Nov-18
+L-006-19/0	Minna, John D.		Genentech, Inc	26-Nov-18
+L-006-19/0	Oie, Herbert K		Genentech, Inc	26-Nov-18
+L-006-19/0	Pass, Harvey I.		Genentech, Inc	26-Nov-18
+L-272-18/0	Aaronson, Stuart A.		CellSeed, Inc	26-Nov-18
+L-272-18/0	Jainchill, John L.		CellSeed, Inc	26-Nov-18
+L-272-18/0	Todaro, George J.		CellSeed, Inc	26-Nov-18
+L-012-19/0	Buck, Christopher		EMD Millipore Corporation	26-Nov-18
+L-278-17/0	Felber, Barbara		FiberCell Laboratories	26-Nov-18
+L-278-17/0	Pavlakis, George N		FiberCell Laboratories	26-Nov-18
+L-278-17/0	Rosati, Margherita		FiberCell Laboratories	26-Nov-18
+L-253-18/1	Bonomi, Carrie A.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Borgel, Suzanne D.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Dougherty, Kelly		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Hollingshead, Melinda G.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Bonomi, Carrie A.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Borgel, Suzanne D.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Dougherty, Kelly		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Hollingshead, Melinda G.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Bonomi, Carrie A.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Borgel, Suzanne D.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Dougherty, Kelly		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Hollingshead, Melinda G.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Bonomi, Carrie A.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Borgel, Suzanne D.		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Dougherty, Kelly		Yuhan R&D Institute	27-Nov-18
+L-253-18/1	Hollingshead, Melinda G.		Yuhan R&D Institute	27-Nov-18
+L-182-18/0	Buck, Christopher		Regeneron Pharmaceuticals, Inc.	27-Nov-18
+L-182-18/0	Pastrana, Diana V		Regeneron Pharmaceuticals, Inc.	27-Nov-18
+L-182-18/0	Schiller, John T		Regeneron Pharmaceuticals, Inc.	27-Nov-18
+L-182-18/0	Buck, Christopher		Regeneron Pharmaceuticals, Inc.	27-Nov-18
+L-182-18/0	Pastrana, Diana V		Regeneron Pharmaceuticals, Inc.	27-Nov-18
+L-182-18/0	Schiller, John T		Regeneron Pharmaceuticals, Inc.	27-Nov-18
+L-093-17/0	Gazdar, Adi F.		ADC Therapeutics SA	28-Nov-18
+L-093-17/0	Minna, John D.		ADC Therapeutics SA	28-Nov-18
+L-200-97/2	Gelboin, (b) (6) Harry		Panvera Corporation	28-Nov-18
+L-200-97/2	Gonzalez, Frank J		Panvera Corporation	28-Nov-18
+L-073-12/1	Gazdar, Adi F.		JANSSEN BIOTECH INC	29-Nov-18
+L-073-12/1	Johnson, Bruce E		JANSSEN BIOTECH INC	29-Nov-18

(b) (3) (A), (b) (4), (b) (6)

+L-073-12/1	Kaye, Frederic J	(b)(4);	JANSSEN BIOTECH INC	29-Nov-18
+L-073-12/1	Khleif, Samir N.	(b)(6)	JANSSEN BIOTECH INC	29-Nov-18
+L-073-12/1	Minna, John D.		JANSSEN BIOTECH INC	29-Nov-18
+L-073-12/1	Oie, Herbert K		JANSSEN BIOTECH INC	29-Nov-18
+L-073-12/1	Pass, Harvey I.		JANSSEN BIOTECH INC	29-Nov-18

+L-087-07/1	NCI		MedGenesis Therapeutix	29-Nov-18
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Note: L-087-07/1 split between NCI; NIBIB; NINDS

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

NCI

December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-308-17/0	Fowler, Daniel	(b)(4);	Rapa Therapeutics LLC	1-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-308-17/0	Gress, Ronald E.	(b)(6)	Rapa Therapeutics LLC	1-Dec-18						
+L-308-17/0	Jung, Sun-Hee		Rapa Therapeutics LLC	1-Dec-18						
+L-064-18/0	Bonomi, Carrie A.		Alderley Park Limited	1-Dec-18						
+L-064-18/0	Borgel, Suzanne D.		Alderley Park Limited	1-Dec-18						
+L-064-18/0	Dougherty, Kelly		Alderley Park Limited	1-Dec-18						
+L-064-18/0	Hollingshead, Melinda G.		Alderley Park Limited	1-Dec-18						
+L-162-17/0	Bonomi, Carrie A.		Daiichi Sankyo Co., Ltd.	3-Dec-18						
+L-162-17/0	Dougherty, Kelly		Daiichi Sankyo Co., Ltd.	3-Dec-18						
+L-162-17/0	Hollingshead, Melinda G.		Daiichi Sankyo Co., Ltd.	3-Dec-18						
+L-046-19/0	Bonomi, Carrie A.		Dragonfly Therapeutics	3-Dec-18						
+L-046-19/0	Borgel, Suzanne D.		Dragonfly Therapeutics	3-Dec-18						
+L-046-19/0	Dougherty, Kelly		Dragonfly Therapeutics	3-Dec-18						
+L-046-19/0	Hollingshead, Melinda G.		Dragonfly Therapeutics	3-Dec-18						
+L-046-19/0	Schlom, Jeffrey		Dragonfly Therapeutics	3-Dec-18						
+L-256-18/0	Bonomi, Carrie A.		Genentech, Inc.	4-Dec-18						
+L-256-18/0	Dougherty, Kelly		Genentech, Inc.	4-Dec-18						
+L-256-18/0	Hollingshead, Melinda G.		Genentech, Inc.	4-Dec-18						
+L-001-16/0	Cohen, Cyrille J.		Compugen, Ltd.	4-Dec-18						
+L-001-16/0	Morgan, Richard A.		Compugen, Ltd.	4-Dec-18						
+L-001-16/0	Rosenberg, Steven A.		Compugen, Ltd.	4-Dec-18						
+L-053-19/0	Gonzalez, Frank J		Gemphire Therapeutics Inc.	4-Dec-18						
+L-053-19/0	Lee, Susanna Sau-Tuen		Gemphire Therapeutics Inc.	4-Dec-18						
+L-274-18/0	Gros, Alena		Cellular Biomedicine Group, Inc.	4-Dec-18						
+L-274-18/0	Rosenberg, Steven A.		Cellular Biomedicine Group, Inc.	4-Dec-18						
+L-205-18/0	Hodge, James W.		Chugai Pharmaceutical	5-Dec-18						
+L-205-18/0	Young, Howard A.		Chugai Pharmaceutical	5-Dec-18						
+L-073-03/2	Gottesman, Michael M.		Genentech, Inc.	5-Dec-18						
+L-073-03/2	Pastan, Ira H		Genentech, Inc.	5-Dec-18						
+L-073-03/2	Ueda, Kazumitsu		Genentech, Inc.	5-Dec-18						
+L-154-12/0	Gazdar, Adi F.		Ventana Medical Systems	5-Dec-18						
+L-154-12/0	Johnson, Bruce E		Ventana Medical Systems	5-Dec-18						

+L-154-12/0	Kaye, Frederic J	(b)(4):	Ventana Medical Systems	5-Dec-18
+L-154-12/0	Khleif, Samir N.	(b)(6)	Ventana Medical Systems	5-Dec-18
+L-154-12/0	Minna, John D.		Ventana Medical Systems	5-Dec-18
+L-154-12/0	Oie, Herbert K		Ventana Medical Systems	5-Dec-18
+L-154-12/0	Pass, Harvey I.		Ventana Medical Systems	5-Dec-18
+L-099-12/0	Gazdar, Adi F.		Ventana Medical Systems Inc	5-Dec-18
+L-099-12/0	Johnson, Bruce E		Ventana Medical Systems Inc	5-Dec-18
+L-099-12/0	Kaye, Frederic J		Ventana Medical Systems Inc	5-Dec-18
+L-099-12/0	Khleif, Samir N.		Ventana Medical Systems Inc	5-Dec-18
+L-099-12/0	Minna, John D.		Ventana Medical Systems Inc	5-Dec-18
+L-099-12/0	Oie, Herbert K		Ventana Medical Systems Inc	5-Dec-18
+L-099-12/0	Pass, Harvey I.		Ventana Medical Systems Inc	5-Dec-18
+L-109-15/0	Brinkmann, Ulrich		Chugai Pharmaceutical Co.	5-Dec-18
+L-109-15/0	Jung, Sun-Hee		Chugai Pharmaceutical Co.	5-Dec-18
+L-109-15/0	Lee, Byungkook		Chugai Pharmaceutical Co.	5-Dec-18
+L-109-15/0	Pastan, Ira H		Chugai Pharmaceutical Co.	5-Dec-18
+L-063-16/1	Gazdar, Adi F.		GlaxoSmithKline	6-Dec-18
+L-063-16/1	Johnson, Bruce E		GlaxoSmithKline	6-Dec-18
+L-063-16/1	Kaye, Frederic J		GlaxoSmithKline	6-Dec-18
+L-063-16/1	Khleif, Samir N.		GlaxoSmithKline	6-Dec-18
+L-063-16/1	Minna, John D.		GlaxoSmithKline	6-Dec-18
+L-063-16/1	Oie, Herbert K		GlaxoSmithKline	6-Dec-18
+L-063-16/1	Pass, Harvey I.		GlaxoSmithKline	6-Dec-18
+L-012-18/1	Bonomi, Carrie A.		Nurix	6-Dec-18
+L-012-18/1	Borgel, Suzanne D.		Nurix	6-Dec-18
+L-012-18/1	Dougherty, Kelly		Nurix	6-Dec-18
+L-012-18/1	Hollingshead, Melinda G.		Nurix	6-Dec-18
+L-133-09/0	Gazdar, Adi F.		Ventana Medical Systems, Inc.	6-Dec-18
+L-133-09/0	Johnson, Bruce E		Ventana Medical Systems, Inc.	6-Dec-18
+L-133-09/0	Kaye, Frederic J		Ventana Medical Systems, Inc.	6-Dec-18
+L-133-09/0	Khleif, Samir N.		Ventana Medical Systems, Inc.	6-Dec-18
+L-133-09/0	Minna, John D.		Ventana Medical Systems, Inc.	6-Dec-18
+L-133-09/0	Oie, Herbert K		Ventana Medical Systems, Inc.	6-Dec-18
+L-133-09/0	Pass, Harvey I.		Ventana Medical Systems, Inc.	6-Dec-18
+L-001-06/0	NCI		Henry Jackson Foundation	6-Dec-18
+L-071-93/0	Aaronson, Stuart A.	(b)(4):	LIFE TECHNOLOGIES	6-Dec-18
+L-071-93/0	Finch, Paul W.	(b)(6)	LIFE TECHNOLOGIES	6-Dec-18
+L-071-93/0	Rubin, Jeffrey S		LIFE TECHNOLOGIES	6-Dec-18
+L-323-17/0	Bonomi, Carrie A.		SQZ Biotechnologies	6-Dec-18
+L-323-17/0	Borgel, Suzanne D.		SQZ Biotechnologies	6-Dec-18
+L-323-17/0	Dougherty, Kelly		SQZ Biotechnologies	6-Dec-18
+L-323-17/0	Hollingshead, Melinda G.		SQZ Biotechnologies	6-Dec-18
+L-214-16/0	Wolff, Linda		University of California, San Francisco	6-Dec-18
+L-004-07/2	Qasba, Pradman		Life Technologies Corp.	6-Dec-18
+L-004-07/2	Ramakrishnan, Boopathy		Life Technologies Corp.	6-Dec-18
+L-097-00/2	Austin, Faye C.		BD Biosciences, PharMingen	6-Dec-18
+L-097-00/2	Colcher, David		BD Biosciences, PharMingen	6-Dec-18
+L-097-00/2	Hand, Patricia H		BD Biosciences, PharMingen	6-Dec-18

+L-097-00/2	Nuti, Marianna	(b)(4);	BD Biosciences, PharMingen	6-Dec-18
+L-097-00/2	Schlom, Jeffrey	(b)(6)	BD Biosciences, PharMingen	6-Dec-18
+L-206-00/0	Aaronson, Stuart A.		LIFE TECHNOLOGIES	6-Dec-18
+L-206-00/0	King, Charles R.		LIFE TECHNOLOGIES	6-Dec-18
+L-206-00/0	Kraus, (b) (6) Matthias		LIFE TECHNOLOGIES	6-Dec-18
+L-154-97/2	Mason, Llewellyn H.		PharMingen, Inc.	7-Dec-18
+L-154-97/2	Ortaldo, John R.		PharMingen, Inc.	7-Dec-18
+L-148-18/0	(b) (4)		BravoVax Co., Ltd.	7-Dec-18
+L-148-18/0	Lowy, Douglas R.		BravoVax Co., Ltd.	7-Dec-18
+L-148-18/0	Pastrana, Diana V		BravoVax Co., Ltd.	7-Dec-18
+L-148-18/0	Schiller, John T		BravoVax Co., Ltd.	7-Dec-18
+L-148-18/0	NCI		BravoVax Co., Ltd.	7-Dec-18
+L-148-18/0	(b) (4)	(b)(4);	BravoVax Co., Ltd.	7-Dec-18
+L-148-18/0	Lowy, Douglas R.	(b)(6)	BravoVax Co., Ltd.	7-Dec-18
+L-148-18/0	Pastrana, Diana V		BravoVax Co., Ltd.	7-Dec-18
+L-148-18/0	Schiller, John T		BravoVax Co., Ltd.	7-Dec-18
+L-086-15/0	Hanada, Kenichi		Compugen, Ltd.	7-Dec-18
+L-086-15/0	Rosenberg, Steven A.		Compugen, Ltd.	7-Dec-18
+L-086-15/0	Topalian, Suzanne L.		Compugen, Ltd.	7-Dec-18
+L-086-15/0	Yang, James C		Compugen, Ltd.	7-Dec-18
+L-086-15/0	Yu, Zhiya		Compugen, Ltd.	7-Dec-18
+L-098-17/0	Buck, Christopher		SK Chemicals	7-Dec-18
+L-098-17/0	Schiller, John T		SK Chemicals	7-Dec-18
+L-030-18/0	Bonomi, Carrie A.		23andMe Therapeutics	7-Dec-18
+L-030-18/0	Borgel, Suzanne D.		23andMe Therapeutics	7-Dec-18
+L-030-18/0	Dougherty, Kelly		23andMe Therapeutics	7-Dec-18
+L-030-18/0	Hollingshead, Melinda G.		23andMe Therapeutics	7-Dec-18
+L-117-18/0	Bonomi, Carrie A.		Morphic Therapeutic	10-Dec-18
+L-117-18/0	Borgel, Suzanne D.		Morphic Therapeutic	10-Dec-18
+L-117-18/0	Dougherty, Kelly		Morphic Therapeutic	10-Dec-18
+L-117-18/0	Hollingshead, Melinda G.		Morphic Therapeutic	10-Dec-18
+L-054-10/2	NCI		Research Corp Techn. Inc.	10-Dec-18
+L-054-10/2	Dimitrov, Dimiter S.	(b)(4);	Research Corp Techn. Inc.	10-Dec-18
+L-242-17/0	Schlom, Jeffrey	(b)(6)	Amal Therapeutics	10-Dec-18
+L-087-17/0	Copeland, Neal		AdCure Biotechnologies, LLC	11-Dec-18
+L-087-17/0	Costantino, Nina		AdCure Biotechnologies, LLC	11-Dec-18
+L-087-17/0	Court, Donald		AdCure Biotechnologies, LLC	11-Dec-18
+L-087-17/0	Ellis, Hilary Moyed		AdCure Biotechnologies, LLC	11-Dec-18
+L-087-17/0	Jenkins Copeland, Nancy A		AdCure Biotechnologies, LLC	11-Dec-18
+L-087-17/0	Lee, E-Chiang		AdCure Biotechnologies, LLC	11-Dec-18
+L-087-17/0	Sharan, Shyam K		AdCure Biotechnologies, LLC	11-Dec-18
+L-087-17/0	Swaminathan, Srividya		AdCure Biotechnologies, LLC	11-Dec-18
+L-087-17/0	Warming, Soren		AdCure Biotechnologies, LLC	11-Dec-18
+L-087-17/0	Yu, Daiguan		AdCure Biotechnologies, LLC	11-Dec-18
+L-152-18/0	Bonomi, Carrie A.		Cygnal Therapeutics	11-Dec-18

(b) (3) (A), (b) (4), (b) (6)

+L-152-18/0	Dougherty, Kelly	(b)(4);	Cygnal Therapeutics	11-Dec-18
+L-152-18/0	Hollingshead, Melinda G.	(b)(6)	Cygnal Therapeutics	11-Dec-18
+L-205-16/0	Gazdar, Adi F.		Relay Therapeutics, Inc.	11-Dec-18
+L-205-16/0	Johnson, Bruce E		Relay Therapeutics, Inc.	11-Dec-18
+L-205-16/0	Kaye, Frederic J		Relay Therapeutics, Inc.	11-Dec-18
+L-205-16/0	Kheif, Samir N.		Relay Therapeutics, Inc.	11-Dec-18
+L-205-16/0	Minna, John D.		Relay Therapeutics, Inc.	11-Dec-18
+L-205-16/0	Oie, Herbert K		Relay Therapeutics, Inc.	11-Dec-18
+L-205-16/0	Pass, Harvey I.		Relay Therapeutics, Inc.	11-Dec-18
+L-197-17/0	Bonomi, Carrie A.		Seattle Genetics, Inc.	12-Dec-18
+L-197-17/0	Borgel, Suzanne D.		Seattle Genetics, Inc.	12-Dec-18
+L-197-17/0	Dougherty, Kelly		Seattle Genetics, Inc.	12-Dec-18
+L-197-17/0	Hollingshead, Melinda G.		Seattle Genetics, Inc.	12-Dec-18
+L-076-05/0	Fitzgerald, David J.		International Vaccine Inst.	12-Dec-18
+L-076-05/0	Pastan, Ira H		International Vaccine Inst.	12-Dec-18
<i>Note: L-076-05/0 split between NCI; NICHD; NIDDK</i>				
+L-327-17/0	NCI		Diagnostic BioSystems	12-Dec-18
+L-076-10/1	(b) (4)	(b)(4);	Scancell Ltd	13-Dec-18
+L-076-10/1	Hwu, Patrick	(b)(6)	Scancell Ltd	13-Dec-18
+L-076-10/1	Kawakami, Yutaka		Scancell Ltd	13-Dec-18
+L-076-10/1	Lapointe, Rejean		Scancell Ltd	13-Dec-18
+L-076-10/1	Parkhurst, Maria		Scancell Ltd	13-Dec-18
+L-076-10/1	Rosenberg, Steven A.		Scancell Ltd	13-Dec-18
+L-076-10/1	(b) (4)		Scancell Ltd	13-Dec-18
+L-076-10/1	Wang, Rong-fu		Scancell Ltd	13-Dec-18
+L-174-18/0	Bonomi, Carrie A.		Scancell	13-Dec-18
+L-174-18/0	Borgel, Suzanne D.		Scancell	13-Dec-18
+L-174-18/0	Dougherty, Kelly		Scancell	13-Dec-18
+L-174-18/0	Hollingshead, Melinda G.		Scancell	13-Dec-18
+L-012-16/1	Boyd, Michael R.		The Population Council, Inc.	13-Dec-18
+L-012-16/1	McMahon, James		The Population Council, Inc.	13-Dec-18
+L-012-16/1	O'Keefe, Barry		The Population Council, Inc.	13-Dec-18
+L-012-16/1	Toshiyuki, Mori		The Population Council, Inc.	13-Dec-18
+L-298-96/2	Greenstone, Heather L.		Merck & Co., Inc.	14-Dec-18
+L-298-96/2	Kirnbauer, Reinhard		Merck & Co., Inc.	14-Dec-18
+L-298-96/2	Lowy, Douglas R.		Merck & Co., Inc.	14-Dec-18
+L-298-96/2	Schiller, John T		Merck & Co., Inc.	14-Dec-18
+L-029-19/0	Gazdar, Adi F.		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Johnson, Bruce E		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Kaye, Frederic J		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Kheif, Samir N.		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Minna, John D.		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Oie, Herbert K		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Pass, Harvey I.		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Gazdar, Adi F.		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Johnson, Bruce E		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Kaye, Frederic J		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Kheif, Samir N.		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Minna, John D.		F. Hoffmann-La Roche AG	14-Dec-18

+L-029-19/0	Oie, Herbert K	(b)(4);	F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Pass, Harvey I.	(b)(6)	F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Gazdar, Adi F.		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Johnson, Bruce E		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Kaye, Frederic J		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Kheif, Samir N.		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Minna, John D.		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Oie, Herbert K		F. Hoffmann-La Roche AG	14-Dec-18
+L-029-19/0	Pass, Harvey I.		F. Hoffmann-La Roche AG	14-Dec-18
+L-060-18/0	Bonomi, Carrie A.		Kineta, Inc	14-Dec-18
+L-060-18/0	Borgel, Suzanne D.		Kineta, Inc	14-Dec-18
+L-060-18/0	Dougherty, Kelly		Kineta, Inc	14-Dec-18
+L-060-18/0	Hollingshead, Melinda G.		Kineta, Inc	14-Dec-18
+L-320-17/0	Bonomi, Carrie A.		Elstar Therapeutics	14-Dec-18
+L-320-17/0	Borgel, Suzanne D.		Elstar Therapeutics	14-Dec-18
+L-320-17/0	Dougherty, Kelly		Elstar Therapeutics	14-Dec-18
+L-320-17/0	Hollingshead, Melinda G.		Elstar Therapeutics	14-Dec-18
+L-064-06/5	Boyd, Michael R.		Intrucept Biomedicine, LLC	17-Dec-18
+L-064-06/5	O'Keefe, Barry		Intrucept Biomedicine, LLC	17-Dec-18
+L-064-06/5	Toshiyuki, Mori		Intrucept Biomedicine, LLC	17-Dec-18
+L-182-18/0	Buck, Christopher		Regeneron Pharmaceuticals, Inc.	18-Dec-18
+L-182-18/0	Pastrana, Diana V		Regeneron Pharmaceuticals, Inc.	18-Dec-18
+L-182-18/0	Schiller, John T		Regeneron Pharmaceuticals, Inc.	18-Dec-18
+L-259-18/0	Bonomi, Carrie A.		Oncoveda Cancer Research Center	18-Dec-18
+L-259-18/0	Borgel, Suzanne D.		Oncoveda Cancer Research Center	18-Dec-18
+L-259-18/0	Dougherty, Kelly		Oncoveda Cancer Research Center	18-Dec-18
+L-259-18/0	Hollingshead, Melinda G.		Oncoveda Cancer Research Center	18-Dec-18
+L-023-09/2	Waugh, David		Takeda Pharmaceutical	18-Dec-18
+L-142-18/0	Gottesman, Michael M.		Takeda California	18-Dec-18
+L-142-18/0	Pastan, Ira H		Takeda California	18-Dec-18
+L-142-18/0	Ueda, Kazumitsu		Takeda California	18-Dec-18
+L-046-19/0	Bonomi, Carrie A.		Dragonfly Therapeutics	18-Dec-18
+L-046-19/0	Borgel, Suzanne D.		Dragonfly Therapeutics	18-Dec-18
+L-046-19/0	Dougherty, Kelly		Dragonfly Therapeutics	18-Dec-18
+L-046-19/0	Hollingshead, Melinda G.		Dragonfly Therapeutics	18-Dec-18
+L-046-19/0	Schlom, Jeffrey		Dragonfly Therapeutics	18-Dec-18
+L-086-16/0	Bonomi, Carrie A.		Compass Therapeutics, LLC	18-Dec-18
+L-086-16/0	Dougherty, Kelly		Compass Therapeutics, LLC	18-Dec-18
+L-086-16/0	Hollingshead, Melinda G.		Compass Therapeutics, LLC	18-Dec-18
+L-049-00/1	Hathcock, Karen		eBioscience, Inc..	18-Dec-18
+L-049-00/1	Hodes, Richard		eBioscience, Inc..	18-Dec-18
+L-049-00/1	Laszlo, Gloria		eBioscience, Inc..	18-Dec-18
<i>Note: L-049-00/1 split between NCI; NIAID</i>				
+L-010-08/1	Hathcock, Karen		BioLegend	18-Dec-18
+L-010-08/1	Hodes, Richard		BioLegend	18-Dec-18
+L-010-08/1	Laszlo, Gloria		BioLegend	18-Dec-18

+L-162-08/1	Roberts, (b) (6) Anita	(b)(4);	BioLegend	18-Dec-18
+L-162-08/1	Sporn, Michael B.	(b)(6)	BioLegend	18-Dec-18
<i>Note: L-162-08/1 split between NCI; NIAID</i>				
+L-042-08/1	Azimi, Nazli		BioLegend	18-Dec-18
+L-042-08/1	Dubois, Sigrid		BioLegend	18-Dec-18
+L-042-08/1	Goldman, Carolyn		BioLegend	18-Dec-18
+L-042-08/1	Lantz, Valerie A		BioLegend	18-Dec-18
+L-042-08/1	Mariner Kilbourne, Jennifer		BioLegend	18-Dec-18
+L-042-08/1	Waldmann, Thomas A.		BioLegend	18-Dec-18
+L-136-09/0	Mason, Llewellyn H.		BioLegend	18-Dec-18
+L-136-09/0	Ortaldo, John R.		BioLegend	18-Dec-18
+L-073-09/0	Bonner, William M		BioLegend	18-Dec-18
+L-073-09/0	Rogakou, Efthimia P		BioLegend	18-Dec-18
+L-007-11/1	Onda, Masanori		BioLegend	18-Dec-18
+L-007-11/1	Pastan, Ira H		BioLegend	18-Dec-18
+L-037-11/0	Jelinek, Ivett		BioLegend	18-Dec-18
+L-037-11/0	Segal, David M.		BioLegend	18-Dec-18
+L-037-11/0	Wang, Yan		BioLegend	18-Dec-18
+L-070-12/0	Hathcock, Karen		BioLegend	18-Dec-18
+L-070-12/0	Hodes, Richard		BioLegend	18-Dec-18
+L-070-12/0	Laszlo, Gloria		BioLegend	18-Dec-18
+L-095-12/0	Baskar, Sivasubramanian		BioLegend	18-Dec-18
+L-095-12/0	Rader, Christoph		BioLegend	18-Dec-18
+L-198-15/0	Ise, Tomoko		BioLegend	18-Dec-18
+L-198-15/0	Nagata, Satoshi		BioLegend	18-Dec-18
+L-198-15/0	Pastan, Ira H		BioLegend	18-Dec-18
+L-024-97/2	Kawakami, Yutaka		Signet Laboratories, Inc.	18-Dec-18
+L-024-97/2	Rosenberg, Steven A.		Signet Laboratories, Inc.	18-Dec-18
+L-216-14/0	Chang, Kai		Covance Research Product	18-Dec-18
+L-216-14/0	Pastan, Ira H		Covance Research Product	18-Dec-18
+L-216-14/0	Willingham, Mark C.		Covance Research Product	18-Dec-18
+L-254-17/0	Bonomi, Carrie A.		Neon Therapeutics	19-Dec-18
+L-254-17/0	Borgel, Suzanne D.		Neon Therapeutics	19-Dec-18
+L-254-17/0	Dougherty, Kelly		Neon Therapeutics	19-Dec-18
+L-254-17/0	Hollingshead, Melinda G.		Neon Therapeutics	19-Dec-18
+L-248-17/1	(b) (4)		Vernalis	19-Dec-18
+L-248-17/1	Esposito, Dominic		Vernalis	19-Dec-18
+L-248-17/1	Hopkins, Ralph F.		Vernalis	19-Dec-18
+L-248-17/1	Roberts, Veronica Ann		Vernalis	19-Dec-18
+L-249-17/1	Esposito, Dominic		Vernalis	19-Dec-18
+L-249-17/1	Gillette, William K.		Vernalis	19-Dec-18
+L-249-17/1	Grose, Carissa L.		Vernalis	19-Dec-18
+L-249-17/1	Stephens, Robert M.		Vernalis	19-Dec-18
+L-259-17/0	Kochenderfer, James N		CRISPR Therapeutics AG	19-Dec-18

+L-114-06/1	Azimi, Nazli	(b)(4);	Affymetrix, Inc.	19-Dec-18
+L-114-06/1	Dubois, Sigrid	(b)(6)	Affymetrix, Inc.	19-Dec-18
+L-114-06/1	Goldman, Carolyn		Affymetrix, Inc.	19-Dec-18
+L-114-06/1	Lantz, Valerie A		Affymetrix, Inc.	19-Dec-18
+L-114-06/1	Mariner Kilbourne, Jennifer		Affymetrix, Inc.	19-Dec-18
+L-114-06/1	Waldmann, Thomas A.		Affymetrix, Inc.	19-Dec-18
+L-086-06/0	Essand, Lars Magnus		eBioscience	19-Dec-18
+L-086-06/0	Lee, Byungkook		eBioscience	19-Dec-18
+L-086-06/0	Pastan, Ira H		eBioscience	19-Dec-18
+L-086-06/0	Vasmatzis, George		eBioscience	19-Dec-18
+L-086-06/0	Wolfgang, Curt		eBioscience	19-Dec-18
+L-109-06/0	Mason, Llewellyn H.		eBioscience	19-Dec-18
+L-109-06/0	Ortaldo, John R.		eBioscience	19-Dec-18
+L-023-01/3	Horie, Kyoji		Omeros Corporation	19-Dec-18
+L-023-01/3	Pavakis, George N		Omeros Corporation	19-Dec-18
+L-208-13/0	NCI		Aspyrian Therapeutics, Inc.	19-Dec-18
+L-033-17/0	Bonomi, Carrie A.	(b)(4);	MD Biosciences, Inc.	19-Dec-18
+L-033-17/0	Dougherty, Kelly	(b)(6)	MD Biosciences, Inc.	19-Dec-18
+L-033-17/0	Hollingshead, Melinda G.		MD Biosciences, Inc.	19-Dec-18
+L-327-17/0	Gao, Wei		Diagnostic BioSystems	19-Dec-18
+L-327-17/0	Hassan, Raffit		Diagnostic BioSystems	19-Dec-18
+L-327-17/0	Ho, Mitchell		Diagnostic BioSystems	19-Dec-18
+L-327-17/0	Pastan, Ira H		Diagnostic BioSystems	19-Dec-18
+L-327-17/0	Phung, Yen T.		Diagnostic BioSystems	19-Dec-18
+L-327-17/0	Zhang, Yifan		Diagnostic BioSystems	19-Dec-18
+L-325-17/0	Gao, Wei		Diagnostic BioSystems	19-Dec-18
+L-325-17/0	Ho, Mitchell		Diagnostic BioSystems	19-Dec-18
+L-325-17/0	Phung, Yen T.		Diagnostic BioSystems	19-Dec-18
+L-325-17/0	Zhang, Yifan		Diagnostic BioSystems	19-Dec-18
+L-011-19/0	Gottesman, Michael M.		Amgen, Inc.	19-Dec-18
+L-011-19/0	Pastan, Ira H		Amgen, Inc.	19-Dec-18
+L-011-19/0	Ueda, Kazumitsu		Amgen, Inc.	19-Dec-18
+L-011-19/0	Gottesman, Michael M.		Amgen, Inc.	19-Dec-18
+L-011-19/0	Pastan, Ira H		Amgen, Inc.	19-Dec-18
+L-011-19/0	Ueda, Kazumitsu		Amgen, Inc.	19-Dec-18
+L-011-19/0	Gottesman, Michael M.		Amgen, Inc.	19-Dec-18
+L-011-19/0	Pastan, Ira H		Amgen, Inc.	19-Dec-18
+L-011-19/0	Ueda, Kazumitsu		Amgen, Inc.	19-Dec-18
+L-272-18/0	Aaronson, Stuart A.		CellSeed, Inc	20-Dec-18
+L-272-18/0	Jainchill, John L.		CellSeed, Inc	20-Dec-18
+L-272-18/0	Todaro, George J.		CellSeed, Inc	20-Dec-18
+L-170-07/0	Dimitrov, Dimiter S.		Indian Immunologicals Ltd.	20-Dec-18
+L-170-07/0	Zhu, Zhongyu		Indian Immunologicals Ltd.	20-Dec-18
+L-279-18/0	NCI		Beoro Therapeutics, GmbH	20-Dec-18
+L-039-11/0	Onda, Masanori	(b)(4);	Rockland Immunochemicals, Inc.	20-Dec-18

(b) (3) (A), (b) (4), (b) (6)

+L-039-11/0	Pastan, Ira H	(b)(4); Rockland Immunochemicals, Inc.	20-Dec-18
+L-277-14/2	NCI	Kite Pharma, Inc.	21-Dec-18
+L-026-05/8	Bang, Sook-Hee	(b)(4); MedImmune, Inc.	21-Dec-18
+L-026-05/8	Beers, Richard	(b)(6) MedImmune, Inc.	21-Dec-18
+L-026-05/8	Brinkmann, Ulrich	MedImmune, Inc.	21-Dec-18
+L-026-05/8	Fitzgerald, David J.	MedImmune, Inc.	21-Dec-18
+L-026-05/8	Ho, Mitchell	MedImmune, Inc.	21-Dec-18
+L-026-05/8	Jung, Sun-Hee	MedImmune, Inc.	21-Dec-18
+L-026-05/8	Kreitman, Robert J	MedImmune, Inc.	21-Dec-18
+L-026-05/8	Kuan, Chien-Tsun	MedImmune, Inc.	21-Dec-18
+L-026-05/8	Lee, Byungkook	MedImmune, Inc.	21-Dec-18
+L-026-05/8	Mansfield, Elizabeth	MedImmune, Inc.	21-Dec-18
+L-026-05/8	Pastan, Ira H	MedImmune, Inc.	21-Dec-18
+L-026-05/8	Salvatore, Giuliana	MedImmune, Inc.	21-Dec-18
+L-100-18/0	Bonomi, Carrie A.	Codiak Biosciences	21-Dec-18
+L-100-18/0	Borgel, Suzanne D.	Codiak Biosciences	21-Dec-18
+L-100-18/0	Dougherty, Kelly	Codiak Biosciences	21-Dec-18
+L-100-18/0	Hollingshead, Melinda G.	Codiak Biosciences	21-Dec-18
+L-107-18/0	Bonomi, Carrie A.	Codiak Biosciences	21-Dec-18
+L-107-18/0	Dougherty, Kelly	Codiak Biosciences	21-Dec-18
+L-107-18/0	Hollingshead, Melinda G.	Codiak Biosciences	21-Dec-18
+L-161-18/0	Gazdar, Adi F.	ImmunoActiva	21-Dec-18
+L-161-18/0	Johnson, Bruce E	ImmunoActiva	21-Dec-18
+L-161-18/0	Kaye, Frederic J	ImmunoActiva	21-Dec-18
+L-161-18/0	Kheif, Samir N.	ImmunoActiva	21-Dec-18
+L-161-18/0	Minna, John D.	ImmunoActiva	21-Dec-18
+L-161-18/0	Oie, Herbert K	ImmunoActiva	21-Dec-18
+L-161-18/0	Pass, Harvey I.	ImmunoActiva	21-Dec-18
+L-199-15/1	Hurwitz, Arthur A.	Agenus, Inc.	21-Dec-18
+L-199-15/1	Ji, Qingyong	Agenus, Inc.	21-Dec-18
+L-199-15/1	Singh, Vinod	Agenus, Inc.	21-Dec-18
+L-199-15/1	Zhu, Ziqiang	Agenus, Inc.	21-Dec-18
+L-149-18/0	Esposito, Dominic	Merck Sharp & Dohme	24-Dec-18
+L-149-18/0	Gillette, William K.	Merck Sharp & Dohme	24-Dec-18
+L-149-18/0	Grose, Carissa L.	Merck Sharp & Dohme	24-Dec-18
+L-118-16/0	Antony, Paul A.	Merck Sharp	24-Dec-18
+L-118-16/0	Irvine, Kari R.	Merck Sharp	24-Dec-18
+L-118-16/0	Restifo, Nicholas P.	Merck Sharp	24-Dec-18
+L-023-01/3	Horie, Kyoji	Omeros Corporation	24-Dec-18
+L-023-01/3	Pavlikis, George N	Omeros Corporation	24-Dec-18
+L-089-07/0	Emmert-Buck, Michael R.	Theranostics Health	24-Dec-18
+L-089-07/0	Liotta, Lance	Theranostics Health	24-Dec-18
+L-089-07/0	Mehta, Arpita I	Theranostics Health	24-Dec-18
+L-089-07/0	Simone, Nicole L	Theranostics Health	24-Dec-18
<i>Note: L-089-07/0 split between FDA; NCI</i>			
+L-108-09/0	Conrads, Thomas P	Beckman Coulter	26-Dec-18
+L-108-09/0	Issaq, Haleem J.	Beckman Coulter	26-Dec-18
+L-108-09/0	Janini, George	Beckman Coulter	26-Dec-18

+L-108-09/0	Veenstra, Timothy D	(b)(4); Beckman Coulter	26-Dec-18
+L-108-09/0	Wilkins, Kenneth L.	(b)(6) Beckman Coulter	26-Dec-18
+L-128-18/0	Bonomi, Carrie A.	Xencor	26-Dec-18
+L-128-18/0	Borgel, Suzanne D.	Xencor	26-Dec-18
+L-128-18/0	Dougherty, Kelly	Xencor	26-Dec-18
+L-128-18/0	Hollingshead, Melinda G.	Xencor	26-Dec-18
+L-015-84/8	Chang, Nancy T.	Abbott Laboratories	26-Dec-18
+L-015-84/8	Crowl, Robert	Abbott Laboratories	26-Dec-18
+L-015-84/8	Fisher, Amanda G.	Abbott Laboratories	26-Dec-18
+L-015-84/8	Gallo, Robert C.	Abbott Laboratories	26-Dec-18
+L-015-84/8	Hahn, Beatrice	Abbott Laboratories	26-Dec-18
+L-015-84/8	(b) (4)	Abbott Laboratories	26-Dec-18
+L-015-84/8	Popovic, Mikulas	Abbott Laboratories	26-Dec-18
+L-015-84/8	Reddy, E. Premkumar.	Abbott Laboratories	26-Dec-18
+L-015-84/8	Sarnagadharan, Mangalasseril	Abbott Laboratories	26-Dec-18
+L-015-84/8	Shaw, George M	Abbott Laboratories	26-Dec-18
+L-015-84/8	Wong-Staal, Flossie	Abbott Laboratories	26-Dec-18
+L-208-13/0	Bernardo, Marcelino L.	Aspyrian THerapeutics, Inc.	26-Dec-18
+L-208-13/0	Choyke, Peter L	Aspyrian THerapeutics, Inc.	26-Dec-18
+L-208-13/0	Kobayashi, Hisataka	Aspyrian THerapeutics, Inc.	26-Dec-18
+L-208-13/0	Mitsunaga, Makoto	Aspyrian THerapeutics, Inc.	26-Dec-18
+L-184-18/0	Bonomi, Carrie A.	Akrevia	26-Dec-18
+L-184-18/0	Borgel, Suzanne D.	Akrevia	26-Dec-18
+L-184-18/0	Dougherty, Kelly	Akrevia	26-Dec-18
+L-184-18/0	Hollingshead, Melinda G.	Akrevia	26-Dec-18
+L-158-17/0	Wang, Xiaohong	Mokobio Life Science Group, Inc.	26-Dec-18
+L-158-17/0	Xu, Junfen	Mokobio Life Science Group, Inc.	26-Dec-18
+L-158-17/0	Zheng, Zhi-Min g (Thomas)	Mokobio Life Science Group, Inc.	26-Dec-18
<i>Note: L-158-17/0 split between NCI; NHLBI</i>			
+L-158-18/0	(b) (4)	Merck Sharp & Dohme	27-Dec-18
+L-158-18/0	Esposito, Dominic	Merck Sharp & Dohme	27-Dec-18
+L-158-18/0	Hopkins, Ralph F.	Merck Sharp & Dohme	27-Dec-18
+L-158-18/0	Roberts, Veronica Ann	Merck Sharp & Dohme	27-Dec-18
+L-026-05/8	Bang, Sook-Hee	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Beers, Richard	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Brinkmann, Ulrich	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Fitzgerald, David J.	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Ho, Mitchell	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Jung, Sun-Hee	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Kreitman, Robert J	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Kuan, Chien-Tsun	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Lee, Byungkook	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Mansfield, Elizabeth	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Pastan, Ira H	MedImmune, Inc.	27-Dec-18
+L-026-05/8	Salvatore, Giuliana	MedImmune, Inc.	27-Dec-18
+L-319-14/0	Gottesman, Michael M.	WuXi AppTech, Co., Ltd.	27-Dec-18
+L-319-14/0	Pastan, Ira H	WuXi AppTech, Co., Ltd.	27-Dec-18
+L-319-14/0	Ueda, Kazumitsu	WuXi AppTech, Co., Ltd.	27-Dec-18
+L-171-17/0	Bonomi, Carrie A.	VL41 Inc.	28-Dec-18
+L-171-17/0	Borgel, Suzanne D.	VL41 Inc.	28-Dec-18

(b) (3) (A), (b) (4), (b) (6)

+L-171-17/0	Dougherty, Kelly	(b)(4);	VL41 Inc.	28-Dec-18
+L-171-17/0	Hollingshead, Melinda G.	(b)(6)	VL41 Inc.	28-Dec-18
+L-232-18/0	Hanada, Kenichi		Allogene Therapeutics	28-Dec-18
+L-232-18/0	Yang, James C		Allogene Therapeutics	28-Dec-18
+L-232-18/0	Yu, Zhiya		Allogene Therapeutics	28-Dec-18
+L-223-17/0	Beers, Richard		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Chang, Kai		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Chowdhury, Partha S		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Eberle, Jaime A		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Fitzgerald, David J.		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Kreitman, Robert J		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Lee, Byungkook		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Liu, Wenhai		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Mazor, Ronit		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Nagata, Satoshi		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Onda, Masanori		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Pastan, Ira H		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Vassall, Aaron		Selecta Biosciences, Inc.	28-Dec-18
+L-223-17/0	Weldon, John		Selecta Biosciences, Inc.	28-Dec-18
+L-209-18/0	Bonomi, Carrie A.		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Borgel, Suzanne D.		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Dougherty, Kelly		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Hollingshead, Melinda G.		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Bonomi, Carrie A.		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Borgel, Suzanne D.		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Dougherty, Kelly		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Hollingshead, Melinda G.		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Bonomi, Carrie A.		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Borgel, Suzanne D.		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Dougherty, Kelly		H3 Biomedicine Inc.	28-Dec-18
+L-209-18/0	Hollingshead, Melinda G.		H3 Biomedicine Inc.	28-Dec-18
+L-130-16/0	Morgan, Richard A.		Five Prime Therapeutics, Inc	28-Dec-18
+L-130-16/0	Robbins, Paul F		Five Prime Therapeutics, Inc	28-Dec-18
+L-130-16/0	Rosenberg, Steven A.		Five Prime Therapeutics, Inc	28-Dec-18
+L-281-17/0	Bonomi, Carrie A.		Intellia Therapeutics, Inc	28-Dec-18
+L-281-17/0	Borgel, Suzanne D.		Intellia Therapeutics, Inc	28-Dec-18
+L-281-17/0	Dougherty, Kelly		Intellia Therapeutics, Inc	28-Dec-18
+L-281-17/0	Hollingshead, Melinda G.		Intellia Therapeutics, Inc	28-Dec-18
+L-273-18/0	Bonomi, Carrie A.		PMI Biopharma Solutions, LLC.	28-Dec-18
+L-273-18/0	Borgel, Suzanne D.		PMI Biopharma Solutions, LLC.	28-Dec-18
+L-273-18/0	Dougherty, Kelly		PMI Biopharma Solutions, LLC.	28-Dec-18
+L-273-18/0	Hollingshead, Melinda G.		PMI Biopharma Solutions, LLC.	28-Dec-18
+L-169-15/1	Gottesman, Michael M.		Enanta Pharmaceuticals, Inc.	28-Dec-18
+L-169-15/1	Pastan, Ira H		Enanta Pharmaceuticals, Inc.	28-Dec-18
+L-169-15/1	Ueda, Kazumitsu		Enanta Pharmaceuticals, Inc.	28-Dec-18
+L-015-19/0	(b) (4)		Life Technologies Corporation	28-Dec-18
+L-015-19/0	Esposito, Dominic		Life Technologies Corporation	28-Dec-18
+L-015-19/0	Hopkins, Ralph F.		Life Technologies Corporation	28-Dec-18
+L-015-19/0	Roberts, Veronica Ann		Life Technologies Corporation	28-Dec-18

(b) (3) (A), (b) (4), (b) (6)

+L-200-97/2	Gelboin, (b) (6) Harry	(b)(4);	Panvera Corporation	28-Dec-18
+L-200-97/2	Gonzalez, Frank J	(b)(6)	Panvera Corporation	28-Dec-18
+L-048-15/1	Schlom, Jeffrey		PDS Biotechnology Corp	28-Dec-18
+L-048-15/1	Tsang, Kwong-Yok		PDS Biotechnology Corp	28-Dec-18
+L-049-16/0	Howley, Peter M.		The Regents of the University of Califor	28-Dec-18
+L-037-17/2	Esposito, Dominic		KeraFAST	28-Dec-18
+L-037-17/2	Hopkins, Ralph F.		KeraFAST	28-Dec-18
+L-008-15/1	Chuaqui, Rodrigo		xMD Diagnostics, LLC	28-Dec-18
+L-008-15/1	Emmert-Buck, Michael R.		xMD Diagnostics, LLC	28-Dec-18
+L-008-15/1	Tangrea, Michael		xMD Diagnostics, LLC	28-Dec-18
<i>Note: L-008-15/1 split between CIT; NCI; NICHD</i>				
+L-317-17/0	Chen, Weizao		Lentigen Corporation	28-Dec-18
+L-317-17/0	Dimitrov, Dimiter S.		Lentigen Corporation	28-Dec-18
+L-317-17/0	Ponraj, Prabakaran		Lentigen Corporation	28-Dec-18
+L-107-15/1	Dudley, Mark		Lion Biotechnologies, Inc.	28-Dec-18
+L-107-15/1	Hinrichs, Christian S.		Lion Biotechnologies, Inc.	28-Dec-18
+L-107-15/1	Rosenberg, Steven A.		Lion Biotechnologies, Inc.	28-Dec-18
+L-107-15/1	Somerville, Robert P.		Lion Biotechnologies, Inc.	28-Dec-18
+L-107-15/1	Wunderlich, John		Lion Biotechnologies, Inc.	28-Dec-18
<i>Note: L-107-15/1 split between CC; NCI</i>				
+L-108-15/0	Gros, Alena		Lion Biotechnologies	28-Dec-18
+L-108-15/0	Rosenberg, Steven A.		Lion Biotechnologies	28-Dec-18

NIH Patent Licensing Activities
NCI
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	NIH Patent Licensing Activities			License Cumulative Income	Inventor Awards January	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income			
+L-200-14/0	Austin, Faye C.	(b)(4);	Becton, Dickinson and Company	1-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-200-14/0	Colcher, David	(b)(6)	Becton, Dickinson and Company	1-Jan-19						
+L-200-14/0	Hand, Patricia H		Becton, Dickinson and Company	1-Jan-19						
+L-200-14/0	Nuti, Marianna		Becton, Dickinson and Company	1-Jan-19						
+L-200-14/0	Schlom, Jeffrey		Becton, Dickinson and Company	1-Jan-19						
+L-084-11/2	Gazdar, Adi F.		Nichirei Biosciences Inc	1-Jan-19						
+L-084-11/2	Johnson, Bruce E		Nichirei Biosciences Inc	1-Jan-19						
+L-084-11/2	Kaye, Frederic J		Nichirei Biosciences Inc	1-Jan-19						
+L-084-11/2	Khleif, Samir N.		Nichirei Biosciences Inc	1-Jan-19						
+L-084-11/2	Minna, John D.		Nichirei Biosciences Inc	1-Jan-19						
+L-084-11/2	Oie, Herbert K		Nichirei Biosciences Inc	1-Jan-19						
+L-084-11/2	Pass, Harvey I.		Nichirei Biosciences Inc	1-Jan-19						
+L-153-16/0	Gazdar, Adi F.		Bayer Pharma AG	1-Jan-19						
+L-153-16/0	Johnson, Bruce E		Bayer Pharma AG	1-Jan-19						
+L-153-16/0	Kaye, Frederic J		Bayer Pharma AG	1-Jan-19						
+L-153-16/0	Khleif, Samir N.		Bayer Pharma AG	1-Jan-19						
+L-153-16/0	Minna, John D.		Bayer Pharma AG	1-Jan-19						
+L-153-16/0	Oie, Herbert K		Bayer Pharma AG	1-Jan-19						

+L-153-16/0	Pass, Harvey I.	(b)(4); (b)(6)	Bayer Pharma AG	1-Jan-19	(b) (3) (A), (b) (4), (b) (6)
+L-083-11/0	Waldmann, Thomas A. <i>Note: L-083-11/0 split between NCI; NINDS</i>		Abbott Biotherapeutics Corp.	1-Jan-19	
+L-210-16/0	Linehan, Marston		MetaboMed, LTD	1-Jan-19	
+L-210-16/0	Yang, Youfeng		MetaboMed, LTD	1-Jan-19	
+L-273-14/0	Chang, Nancy T.		Grifols Worldwide Operations Ltd.	2-Jan-19	
+L-273-14/0	Crowl, Robert		Grifols Worldwide Operations Ltd.	2-Jan-19	
+L-273-14/0	Fisher, Amanda G.		Grifols Worldwide Operations Ltd.	2-Jan-19	
+L-273-14/0	Gallo, Robert C.		Grifols Worldwide Operations Ltd.	2-Jan-19	
+L-273-14/0	Hahn, Beatrice		Grifols Worldwide Operations Ltd.	2-Jan-19	
+L-273-14/0	Popovic, Mikulas		Grifols Worldwide Operations Ltd.	2-Jan-19	
+L-273-14/0	Reddy, E. Premkumar.		Grifols Worldwide Operations Ltd.	2-Jan-19	
+L-273-14/0	Sarnagadharan, Mangalasseril		Grifols Worldwide Operations Ltd.	2-Jan-19	
+L-273-14/0	Shaw, George M		Grifols Worldwide Operations Ltd.	2-Jan-19	
+L-273-14/0	Wong-Staal, Flossie		Grifols Worldwide Operations Ltd.	2-Jan-19	
+L-325-17/0	NCI		Diagnostic BioSystems	2-Jan-19	
+L-190-05/2	Gallo, Robert C.	(b)(4);	GeoVax, Inc.	2-Jan-19	
+L-190-05/2	(b) (4)	(b)(6)	GeoVax, Inc.	2-Jan-19	
+L-190-05/2	Popovic, Mikulas		GeoVax, Inc.	2-Jan-19	
+L-190-05/2	Sarnagadharan, Mangalasseril <i>Note: L-190-05/2 split between NCI; NIAID</i>		GeoVax, Inc.	2-Jan-19	
+L-331-17/1	(b) (4)		Istari Oncology Inc	2-Jan-19	
+L-331-17/1	Broadt, Trevor L.		Istari Oncology Inc	2-Jan-19	
+L-331-17/1	Mitra, Guatam (George)		Istari Oncology Inc	2-Jan-19	
+L-331-17/1	Shaban, Samir H.		Istari Oncology Inc	2-Jan-19	
+L-331-17/1	Xie, yueqing		Istari Oncology Inc	2-Jan-19	
+L-331-17/1	Zhu, Jianwei		Istari Oncology Inc	2-Jan-19	
+L-097-00/2	Austin, Faye C.		BD Biosciences, PharMingen	3-Jan-19	
+L-097-00/2	Colcher, David		BD Biosciences, PharMingen	3-Jan-19	
+L-097-00/2	Hand, Patricia H		BD Biosciences, PharMingen	3-Jan-19	
+L-097-00/2	Nuti, Marianna		BD Biosciences, PharMingen	3-Jan-19	
+L-097-00/2	Schlom, Jeffrey		BD Biosciences, PharMingen	3-Jan-19	
+L-187-95/2	Yoshimura, Teizo		BD BIOSCIENCES	3-Jan-19	
+L-080-93/3	Hathcock, Karen		BD Biosciences - BD PharMingen, Inc.	3-Jan-19	
+L-080-93/3	Hodes, Richard		BD Biosciences - BD PharMingen, Inc.	3-Jan-19	
+L-080-93/3	Laszlo, Gloria		BD Biosciences - BD PharMingen, Inc.	3-Jan-19	
+L-100-12/1	Ise, Tomoko		BD Biosciences	3-Jan-19	
+L-100-12/1	Nagata, Satoshi		BD Biosciences	3-Jan-19	
+L-100-12/1	Pastan, Ira H		BD Biosciences	3-Jan-19	
+L-076-16/0	Azimi, Nazli		BD Biosciences	3-Jan-19	
+L-076-16/0	Dubois, Sigrid		BD Biosciences	3-Jan-19	
+L-076-16/0	Goldman, Carolyn		BD Biosciences	3-Jan-19	
+L-076-16/0	Lantz, Valerie A		BD Biosciences	3-Jan-19	
+L-076-16/0	Mariner Kilbourne, Jennifer		BD Biosciences	3-Jan-19	
+L-076-16/0	Waldmann, Thomas A.		BD Biosciences	3-Jan-19	
+L-038-19/0	Bonomi, Carrie A.		Boehringer Ingelheim International GmbH	3-Jan-19	
+L-038-19/0	Borgel, Suzanne D.		Boehringer Ingelheim International GmbH	3-Jan-19	

+L-038-19/0	Dougherty, Kelly	(b)(4);	Boehringer Ingelheim International GmbH	3-Jan-19
+L-038-19/0	Hollingshead, Melinda G.	(b)(6)	Boehringer Ingelheim International GmbH	3-Jan-19
+L-200-15/0	Aaronson, Stuart A.		TILT Biotherapeutics, Ltd.	4-Jan-19
+L-200-15/0	(b) (6) Donald J. Giard		TILT Biotherapeutics, Ltd.	4-Jan-19
+L-200-15/0	Parks, Wade P		TILT Biotherapeutics, Ltd.	4-Jan-19
+L-223-17/0	NCI		Selecta Biosciences, Inc.	4-Jan-19
+L-129-16/0	Gazdar, Adi F.		Galera Therapeutics, Inc.	4-Jan-19
+L-129-16/0	Minna, John D.		Galera Therapeutics, Inc.	4-Jan-19
+L-115-17/1	Aaronson, Stuart A.		VCN Biosciences, S.L.	4-Jan-19
+L-115-17/1	Giard, Donald		VCN Biosciences, S.L.	4-Jan-19
+L-115-17/1	Parks, Wade P		VCN Biosciences, S.L.	4-Jan-19
+L-257-17/0	Buck, Christopher		Serum Institute of India PVT. LTD.	7-Jan-19
+L-257-17/0	(b) (4)		Serum Institute of India PVT. LTD.	7-Jan-19
+L-257-17/0	Lowy, Douglas R.		Serum Institute of India PVT. LTD.	7-Jan-19
+L-257-17/0	Pastrana, Diana V		Serum Institute of India PVT. LTD.	7-Jan-19
+L-257-17/0	Roden, Richard B		Serum Institute of India PVT. LTD.	7-Jan-19
+L-257-17/0	Schiller, John T		Serum Institute of India PVT. LTD.	7-Jan-19
+L-062-18/0	Bonomi, Carrie A.		Constellation Pharmaceuticals	7-Jan-19
+L-062-18/0	Borgel, Suzanne D.		Constellation Pharmaceuticals	7-Jan-19
+L-062-18/0	Dougherty, Kelly		Constellation Pharmaceuticals	7-Jan-19
+L-062-18/0	Hollingshead, Melinda G.		Constellation Pharmaceuticals	7-Jan-19
+L-745-91/2	Chang, Nancy T.		BioMerieux, Inc.	7-Jan-19
+L-745-91/2	Crowl, Robert		BioMerieux, Inc.	7-Jan-19
+L-745-91/2	Fisher, Amanda G.		BioMerieux, Inc.	7-Jan-19
+L-745-91/2	Gallo, Robert C.		BioMerieux, Inc.	7-Jan-19
+L-745-91/2	Hahn, Beatrice		BioMerieux, Inc.	7-Jan-19
+L-745-91/2	(b) (4)		BioMerieux, Inc.	7-Jan-19
+L-745-91/2	Popovic, Mikulas		BioMerieux, Inc.	7-Jan-19
+L-745-91/2	Reddy, E. Premkumar.		BioMerieux, Inc.	7-Jan-19
+L-745-91/2	Sarnagadharan, Mangalasseril		BioMerieux, Inc.	7-Jan-19
+L-745-91/2	Shaw, George M		BioMerieux, Inc.	7-Jan-19
+L-745-91/2	Wong-Staal, Flossie		BioMerieux, Inc.	7-Jan-19
+L-168-07/2	Chowdhury, Partha S		Morphotek Inc.	8-Jan-19
+L-168-07/2	Pastan, Ira H		Morphotek Inc.	8-Jan-19
+L-090-16/0	Bonomi, Carrie A.		Morphotek, Inc.	8-Jan-19
+L-090-16/0	Borgel, Suzanne D.		Morphotek, Inc.	8-Jan-19
+L-090-16/0	Dougherty, Kelly		Morphotek, Inc.	8-Jan-19
+L-090-16/0	Hollingshead, Melinda G.		Morphotek, Inc.	8-Jan-19
+L-203-15/0	Gazdar, Adi F.		SOTIO	8-Jan-19
+L-203-15/0	Johnson, Bruce E		SOTIO	8-Jan-19
+L-203-15/0	Kaye, Frederic J		SOTIO	8-Jan-19
+L-203-15/0	Khleif, Samir N.		SOTIO	8-Jan-19
+L-203-15/0	Minna, John D.		SOTIO	8-Jan-19
+L-203-15/0	Oie, Herbert K		SOTIO	8-Jan-19
+L-203-15/0	Pass, Harvey I.		SOTIO	8-Jan-19
+L-162-14/0	Gottesman, Michael M.		Pfizer	8-Jan-19
+L-162-14/0	Pastan, Ira H		Pfizer	8-Jan-19
+L-162-14/0	Ueda, Kazumitsu		Pfizer	8-Jan-19

+L-178-05/1	Chung, Jae Wook	(b)(4); (b)(6)	BioGemex Ltd	8-Jan-19
+L-179-16/0	Gazdar, Adi F.		Janssen Research Foundation	8-Jan-19
+L-179-16/0	Johnson, Bruce E		Janssen Research Foundation	8-Jan-19
+L-179-16/0	Kaye, Frederic J		Janssen Research Foundation	8-Jan-19
+L-179-16/0	Khleif, Samir N.		Janssen Research Foundation	8-Jan-19
+L-179-16/0	Minna, John D.		Janssen Research Foundation	8-Jan-19
+L-179-16/0	Oie, Herbert K		Janssen Research Foundation	8-Jan-19
+L-179-16/0	Pass, Harvey I.		Janssen Research Foundation	8-Jan-19
+L-224-18/0	Bonomi, Carrie A.		Tolero Pharmaceuticals, Inc.	8-Jan-19
+L-224-18/0	Borgel, Suzanne D.		Tolero Pharmaceuticals, Inc.	8-Jan-19
+L-224-18/0	Dougherty, Kelly		Tolero Pharmaceuticals, Inc.	8-Jan-19
+L-224-18/0	Hollingshead, Melinda G.		Tolero Pharmaceuticals, Inc.	8-Jan-19
+L-013-19/0	Dimitrov, Dimiter S.		Lentigen Corporation	8-Jan-19
+L-013-19/0	Zhu, Zhongyu		Lentigen Corporation	8-Jan-19
+L-307-17/0	Jessup, John M.		Inova	8-Jan-19
+L-307-17/0	Korokhov, Nikolay		Inova	8-Jan-19
+L-307-17/0	Zhang, Jingyu		Inova	8-Jan-19
+L-307-17/0	NCI		Inova	8-Jan-19
+L-075-16/1	Fry, Terry	(b)(4);	Lentigen Corporation	8-Jan-19
+L-075-16/1	Qin, Haiying	(b)(6)	Lentigen Corporation	8-Jan-19
+L-153-10/0	Greiner, John W.		Arko Laboratories LTD	9-Jan-19
+L-153-10/0	Schlom, Jeffrey		Arko Laboratories LTD	9-Jan-19
+L-153-10/0	Zaharoff, David		Arko Laboratories LTD	9-Jan-19
+L-040-19/0	Bonomi, Carrie A.		Blueprint Medicines Corporation	9-Jan-19
+L-040-19/0	Borgel, Suzanne D.		Blueprint Medicines Corporation	9-Jan-19
+L-040-19/0	Dougherty, Kelly		Blueprint Medicines Corporation	9-Jan-19
+L-040-19/0	Hollingshead, Melinda G.		Blueprint Medicines Corporation	9-Jan-19
+L-013-08/3	Franchini, Genoveffa		Grifols Therapeutics, Inc.	10-Jan-19
+L-013-08/3	Gallo, Robert C.		Grifols Therapeutics, Inc.	10-Jan-19
+L-013-08/3	Kalyanaraman, Vaniambadi S.		Grifols Therapeutics, Inc.	10-Jan-19
+L-013-08/3	Markham, Phillip D.		Grifols Therapeutics, Inc.	10-Jan-19
+L-013-08/3	Salahuddin, Syed Z.		Grifols Therapeutics, Inc.	10-Jan-19
+L-013-08/3	Wong-Staal, Flossie		Grifols Therapeutics, Inc.	10-Jan-19
+L-031-16/0	Bonomi, Carrie A.		Shanghai ChemPartner Co., Ltd.	10-Jan-19
+L-031-16/0	Borgel, Suzanne D.		Shanghai ChemPartner Co., Ltd.	10-Jan-19
+L-031-16/0	Dougherty, Kelly		Shanghai ChemPartner Co., Ltd.	10-Jan-19
+L-031-16/0	Hollingshead, Melinda G.		Shanghai ChemPartner Co., Ltd.	10-Jan-19
+L-126-12/0	Austin, Faye C.		Leica Microsystems	11-Jan-19
+L-126-12/0	Colcher, David		Leica Microsystems	11-Jan-19
+L-126-12/0	Hand, Patricia H		Leica Microsystems	11-Jan-19
+L-126-12/0	Nuti, Marianna		Leica Microsystems	11-Jan-19
+L-126-12/0	Schlom, Jeffrey		Leica Microsystems	11-Jan-19
+L-088-19/0	Bagni- Beyer, Rachel K.		Erasca, Inc.	11-Jan-19
+L-088-19/0	Holderfield, Matthew T.		Erasca, Inc.	11-Jan-19
+L-088-19/0	Soppet, Dan		Erasca, Inc.	11-Jan-19



+L-001-08/1	Austin, Faye C.	(b)(4);	Cell Marque Corp	14-Jan-19
+L-001-08/1	Colcher, David	(b)(6)	Cell Marque Corp	14-Jan-19
+L-001-08/1	Hand, Patricia H		Cell Marque Corp	14-Jan-19
+L-001-08/1	Nuti, Marianna		Cell Marque Corp	14-Jan-19
+L-001-08/1	Schlom, Jeffrey		Cell Marque Corp	14-Jan-19
+L-307-17/0	NCI		Inova	14-Jan-19
+L-092-19/0	Bonomi, Carrie A.	(b)(4);	Glympse Bio, Inc., c/o Advanced Technolo	14-Jan-19
+L-092-19/0	Borgel, Suzanne D.	(b)(6)	Glympse Bio, Inc., c/o Advanced Technolo	14-Jan-19
+L-092-19/0	Dougherty, Kelly		Glympse Bio, Inc., c/o Advanced Technolo	14-Jan-19
+L-092-19/0	Hollingshead, Melinda G.		Glympse Bio, Inc., c/o Advanced Technolo	14-Jan-19
+L-022-06/3	Gottesman, Michael M.		Abbott Laboratories	15-Jan-19
+L-022-06/3	Pastan, Ira H		Abbott Laboratories	15-Jan-19
+L-022-06/3	Ueda, Kazumitsu		Abbott Laboratories	15-Jan-19
+L-256-17/0	Bonomi, Carrie A.		AbbVie	15-Jan-19
+L-256-17/0	Borgel, Suzanne D.		AbbVie	15-Jan-19
+L-256-17/0	Dougherty, Kelly		AbbVie	15-Jan-19
+L-256-17/0	Hollingshead, Melinda G.		AbbVie	15-Jan-19
+L-191-18/0	Bonomi, Carrie A.		Palleon Pharmaceuticals	15-Jan-19
+L-191-18/0	Borgel, Suzanne D.		Palleon Pharmaceuticals	15-Jan-19
+L-191-18/0	Dougherty, Kelly		Palleon Pharmaceuticals	15-Jan-19
+L-191-18/0	Hollingshead, Melinda G.		Palleon Pharmaceuticals	15-Jan-19
+L-032-18/1	Bonomi, Carrie A.		Revolution Medicines, Inc.	15-Jan-19
+L-032-18/1	Borgel, Suzanne D.		Revolution Medicines, Inc.	15-Jan-19
+L-032-18/1	Dougherty, Kelly		Revolution Medicines, Inc.	15-Jan-19
+L-032-18/1	Hollingshead, Melinda G.		Revolution Medicines, Inc.	15-Jan-19
+L-084-18/0	Bagni- Beyer, Rachel K.		Warp Drive Bio	15-Jan-19
+L-084-18/0	(b) (4)		Warp Drive Bio	15-Jan-19
+L-084-18/0	Holderfield, Matthew T.		Warp Drive Bio	15-Jan-19
+L-084-18/0	Soppet, Dan		Warp Drive Bio	15-Jan-19
+L-247-17/0	Bagni- Beyer, Rachel K.		Revolution Medicines, Inc.	15-Jan-19
+L-247-17/0	(b) (4)		Revolution Medicines, Inc.	15-Jan-19
+L-247-17/0	Holderfield, Matthew T.		Revolution Medicines, Inc.	15-Jan-19
+L-247-17/0	Soppet, Dan		Revolution Medicines, Inc.	15-Jan-19
+L-168-17/0	Bera, Tapan K		Amgen, Inc.	15-Jan-19
+L-168-17/0	Pastan, Ira H		Amgen, Inc.	15-Jan-19
+L-088-19/0	Bagni- Beyer, Rachel K.		Erasca, Inc.	15-Jan-19
+L-088-19/0	Holderfield, Matthew T.		Erasca, Inc.	15-Jan-19
+L-088-19/0	Soppet, Dan		Erasca, Inc.	15-Jan-19
+L-091-10/0	Bonner, William M		Novus Biologicals, Inc.	16-Jan-19
+L-091-10/0	Rogakou, Efthimia P		Novus Biologicals, Inc.	16-Jan-19
+L-317-17/0	NCI		Lentigen Corporation	17-Jan-19
+L-166-18/0	Bonomi, Carrie A.		genOway S.A.	18-Jan-19
+L-166-18/0	Borgel, Suzanne D.		genOway S.A.	18-Jan-19
+L-166-18/0	Dougherty, Kelly		genOway S.A.	18-Jan-19
+L-166-18/0	Hollingshead, Melinda G.		genOway S.A.	18-Jan-19

+L-347-14/0	Muchmore, Brian P.	(b)(4);	Abcam, plc	18-Jan-19
+L-347-14/0	O'Brien, Thomas R	(b)(6)	Abcam, plc	18-Jan-19
+L-347-14/0	Porter-Gill, Patricia A.		Abcam, plc	18-Jan-19
+L-347-14/0	Prokunina-Olsson, Ludmila		Abcam, plc	18-Jan-19
<i>Note: L-347-14/0 split between FDA; NCI</i>				
+L-064-11/0	Barry, Todd		Eptiomics Inc	18-Jan-19
+L-064-11/0	Rosenwald, Andreas		Eptiomics Inc	18-Jan-19
+L-064-11/0	Staudt, Louis M		Eptiomics Inc	18-Jan-19
+L-064-11/0	Wiestner, Adrian		Eptiomics Inc	18-Jan-19
+L-064-11/0	Wilson, Wyndham H.		Eptiomics Inc	18-Jan-19
+L-029-93/0	Gallo, Robert C.		Genelabs	18-Jan-19
+L-029-93/0	(b) (4)		Genelabs	18-Jan-19
+L-029-93/0	Popovic, Mikulas		Genelabs	18-Jan-19
+L-029-93/0	Sarnghadharan, Mangalasseril		Genelabs	18-Jan-19
+L-055-12/1	Gazdar, Adi F.		Molecular Imaging	18-Jan-19
+L-055-12/1	Johnson, Bruce E		Molecular Imaging	18-Jan-19
+L-055-12/1	Kaye, Frederic J		Molecular Imaging	18-Jan-19
+L-055-12/1	Kheif, Samir N.		Molecular Imaging	18-Jan-19
+L-055-12/1	Minna, John D.		Molecular Imaging	18-Jan-19
+L-055-12/1	Oie, Herbert K		Molecular Imaging	18-Jan-19
+L-055-12/1	Pass, Harvey I.		Molecular Imaging	18-Jan-19
+L-229-17/0	Bonomi, Carrie A.		Molecular Imaging, Inc.	18-Jan-19
+L-229-17/0	Borgel, Suzanne D.		Molecular Imaging, Inc.	18-Jan-19
+L-229-17/0	Dougherty, Kelly		Molecular Imaging, Inc.	18-Jan-19
+L-229-17/0	Hollingshead, Melinda G.		Molecular Imaging, Inc.	18-Jan-19
+L-085-19/0	Aaronson, Stuart A.		ImmunoActiva	18-Jan-19
+L-085-19/0	Gazdar, Adi F.		ImmunoActiva	18-Jan-19
+L-085-19/0	Giard, Donald		ImmunoActiva	18-Jan-19
+L-085-19/0	Johnson, Bruce E		ImmunoActiva	18-Jan-19
+L-085-19/0	Kaye, Frederic J		ImmunoActiva	18-Jan-19
+L-085-19/0	Kheif, Samir N.		ImmunoActiva	18-Jan-19
+L-085-19/0	Minna, John D.		ImmunoActiva	18-Jan-19
+L-085-19/0	Oie, Herbert K		ImmunoActiva	18-Jan-19
+L-085-19/0	Parks, Wade P		ImmunoActiva	18-Jan-19
+L-085-19/0	Pass, Harvey I.		ImmunoActiva	18-Jan-19
+L-085-19/0	Aaronson, Stuart A.		ImmunoActiva	18-Jan-19
+L-085-19/0	Gazdar, Adi F.		ImmunoActiva	18-Jan-19
+L-085-19/0	Giard, Donald		ImmunoActiva	18-Jan-19
+L-085-19/0	Johnson, Bruce E		ImmunoActiva	18-Jan-19
+L-085-19/0	Kaye, Frederic J		ImmunoActiva	18-Jan-19
+L-085-19/0	Kheif, Samir N.		ImmunoActiva	18-Jan-19
+L-085-19/0	Minna, John D.		ImmunoActiva	18-Jan-19
+L-085-19/0	Oie, Herbert K		ImmunoActiva	18-Jan-19
+L-085-19/0	Parks, Wade P		ImmunoActiva	18-Jan-19
+L-085-19/0	Pass, Harvey I.		ImmunoActiva	18-Jan-19
+L-085-19/0	Aaronson, Stuart A.		ImmunoActiva	18-Jan-19
+L-085-19/0	Gazdar, Adi F.		ImmunoActiva	18-Jan-19
+L-085-19/0	Giard, Donald		ImmunoActiva	18-Jan-19
+L-085-19/0	Johnson, Bruce E		ImmunoActiva	18-Jan-19
+L-085-19/0	Kaye, Frederic J		ImmunoActiva	18-Jan-19
+L-085-19/0	Kheif, Samir N.		ImmunoActiva	18-Jan-19
+L-085-19/0	Minna, John D.		ImmunoActiva	18-Jan-19

+L-085-19/0	Oie, Herbert K	(b)(4);	ImmunoActiva	18-Jan-19
+L-085-19/0	Parks, Wade P	(b)(6)	ImmunoActiva	18-Jan-19
+L-085-19/0	Pass, Harvey I.		ImmunoActiva	18-Jan-19
+L-228-01/0	Chackerian, Bryce		Cytos Biotechnology, Inc.	22-Jan-19
+L-228-01/0	Lowy, Douglas R.		Cytos Biotechnology, Inc.	22-Jan-19
+L-228-01/0	Schiller, John T		Cytos Biotechnology, Inc.	22-Jan-19
+L-113-07/1	Aaronson, Stuart A.		Ventana Medical Systems	22-Jan-19
+L-113-07/1	King, Charles R.		Ventana Medical Systems	22-Jan-19
+L-113-07/1	Kraus, (b) (6) Matthias		Ventana Medical Systems	22-Jan-19
+L-181-18/0	Bonomi, Carrie A.		ModernaTX, Inc.	22-Jan-19
+L-181-18/0	Borgel, Suzanne D.		ModernaTX, Inc.	22-Jan-19
+L-181-18/0	Dougherty, Kelly		ModernaTX, Inc.	22-Jan-19
+L-181-18/0	Hollingshead, Melinda G.		ModernaTX, Inc.	22-Jan-19
+L-057-19/0	Bonomi, Carrie A.		Surface Oncology, Inc.	23-Jan-19
+L-057-19/0	Borgel, Suzanne D.		Surface Oncology, Inc.	23-Jan-19
+L-057-19/0	Dougherty, Kelly		Surface Oncology, Inc.	23-Jan-19
+L-057-19/0	Hollingshead, Melinda G.		Surface Oncology, Inc.	23-Jan-19
+L-183-99/0	Aaronson, Stuart A.		Vysis, Inc.	24-Jan-19
+L-183-99/0	King, Charles R.		Vysis, Inc.	24-Jan-19
+L-183-99/0	Kraus, (b) (6) Matthias		Vysis, Inc.	24-Jan-19
+L-100-17/0	Bonomi, Carrie A.		Genmab, B.V.	25-Jan-19
+L-100-17/0	Borgel, Suzanne D.		Genmab, B.V.	25-Jan-19
+L-100-17/0	Dougherty, Kelly		Genmab, B.V.	25-Jan-19
+L-100-17/0	Hollingshead, Melinda G.		Genmab, B.V.	25-Jan-19
+L-072-19/0	Bagni- Beyer, Rachel K.		X-Chem, Inc.	25-Jan-19
+L-072-19/0	Holderfield, Matthew T.		X-Chem, Inc.	25-Jan-19
+L-072-19/0	Soppet, Dan		X-Chem, Inc.	25-Jan-19
+L-086-11/0	Baskar, Sivasubramanian		Miltenyi Biotec GMBH	28-Jan-19
+L-086-11/0	Rader, Christoph		Miltenyi Biotec GMBH	28-Jan-19
+L-053-11/0	Mason, Llewellyn H.		Miltenyi Biotec Gmbh	28-Jan-19
+L-053-11/0	Ortaldo, John R.		Miltenyi Biotec Gmbh	28-Jan-19
+L-086-11/0	Baskar, Sivasubramanian		Miltenyi Biotec GMBH	28-Jan-19
+L-086-11/0	Rader, Christoph		Miltenyi Biotec GMBH	28-Jan-19
+L-106-12/0	Jelinek, Ivett		Miltenyi Biotec GMBH	28-Jan-19
+L-106-12/0	Segal, David M.		Miltenyi Biotec GMBH	28-Jan-19
+L-106-12/0	Wang, Yan		Miltenyi Biotec GMBH	28-Jan-19
+L-026-12/0	Mason, Llewellyn H.		Miltenyi Biotec GMBH	28-Jan-19
+L-026-12/0	Ortaldo, John R.		Miltenyi Biotec GMBH	28-Jan-19
+L-066-09/0	Chang, Nancy T.		Becton Dickinson	28-Jan-19
+L-066-09/0	Fisher, Amanda G.		Becton Dickinson	28-Jan-19
+L-066-09/0	Franchini, Genoveffa		Becton Dickinson	28-Jan-19
+L-066-09/0	Gallo, Robert C.		Becton Dickinson	28-Jan-19
+L-066-09/0	Gartner, Suzanne		Becton Dickinson	28-Jan-19
+L-066-09/0	Hahn, Beatrice		Becton Dickinson	28-Jan-19
+L-066-09/0	(b) (4)		Becton Dickinson	28-Jan-19
+L-066-09/0	Lori, Franco C.		Becton Dickinson	28-Jan-19

(b) (3) (A), (b) (4), (b) (6)

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-066-09/0	Markham, Phillip D.	(b)(4);	Becton Dickinson	28-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-066-09/0	Popovic, Mikulas	(b)(6)	Becton Dickinson	28-Jan-19						
+L-066-09/0	Reitz, Jr., Marvin S.		Becton Dickinson	28-Jan-19						
+L-066-09/0	Sarnagadharan, Mangalasseril		Becton Dickinson	28-Jan-19						
+L-066-09/0	Shaw, George M		Becton Dickinson	28-Jan-19						
+L-066-09/0	Wong-Staal, Flossie		Becton Dickinson	28-Jan-19						
+L-108-09/0	Conrads, Thomas P		Beckman Coulter	28-Jan-19						
+L-108-09/0	Issaq, Haleem J.		Beckman Coulter	28-Jan-19						
+L-108-09/0	Janini, George		Beckman Coulter	28-Jan-19						
+L-108-09/0	Veenstra, Timothy D		Beckman Coulter	28-Jan-19						
+L-108-09/0	Wilkins, Kenneth L.		Beckman Coulter	28-Jan-19						
+L-099-10/1	Gazdar, Adi F.		Kao Corporation	28-Jan-19						
+L-099-10/1	Johnson, Bruce E		Kao Corporation	28-Jan-19						
+L-099-10/1	Kaye, Frederic J		Kao Corporation	28-Jan-19						
+L-099-10/1	Khleif, Samir N.		Kao Corporation	28-Jan-19						
+L-099-10/1	Minna, John D.		Kao Corporation	28-Jan-19						
+L-099-10/1	Oie, Herbert K		Kao Corporation	28-Jan-19						
+L-099-10/1	Pass, Harvey I.		Kao Corporation	28-Jan-19						
+L-239-16/0	Bonomi, Carrie A.		Alkermes, Inc.	28-Jan-19						
+L-239-16/0	Borgel, Suzanne D.		Alkermes, Inc.	28-Jan-19						
+L-239-16/0	Dougherty, Kelly		Alkermes, Inc.	28-Jan-19						
+L-239-16/0	Hollingshead, Melinda G.		Alkermes, Inc.	28-Jan-19						
+L-318-17/0	Onda, Masanori		Millipore Sigma	29-Jan-19						
+L-318-17/0	Pastan, Ira H		Millipore Sigma	29-Jan-19						
+L-095-17/0	Bonomi, Carrie A.		Millennium Pharmaceuticals, Inc.	30-Jan-19						
+L-095-17/0	Borgel, Suzanne D.		Millennium Pharmaceuticals, Inc.	30-Jan-19						
+L-095-17/0	Dougherty, Kelly		Millennium Pharmaceuticals, Inc.	30-Jan-19						
+L-095-17/0	Hollingshead, Melinda G.		Millennium Pharmaceuticals, Inc.	30-Jan-19						

NIH Patent Licensing Activities
 NCI
 February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-076-10/1	NCI		Scancell Ltd	1-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-201-17/0	Gazdar, Adi F.	(b)(4);	Leica Biosystems Newcastle Ltd	1-Feb-19						
+L-201-17/0	Johnson, Bruce E	(b)(6)	Leica Biosystems Newcastle Ltd	1-Feb-19						
+L-201-17/0	Kaye, Frederic J		Leica Biosystems Newcastle Ltd	1-Feb-19						
+L-201-17/0	Kheif, Samir N.		Leica Biosystems Newcastle Ltd	1-Feb-19						
+L-201-17/0	Minna, John D.		Leica Biosystems Newcastle Ltd	1-Feb-19						
+L-201-17/0	Oie, Herbert K		Leica Biosystems Newcastle Ltd	1-Feb-19						
+L-201-17/0	Pass, Harvey I.		Leica Biosystems Newcastle Ltd	1-Feb-19						
+L-166-02/2	Schlom, Jeffrey		Biocare Medical LLC	1-Feb-19						
+L-242-02/2	Kawakami, Yutaka		Biocare Medical, LLC	1-Feb-19						
+L-242-02/2	Rosenberg, Steven A.		Biocare Medical, LLC	1-Feb-19						
+L-166-02/2	Schlom, Jeffrey		Biocare Medical LLC	1-Feb-19						

+L-242-02/2	Kawakami, Yutaka	(b)(4);	Biocare Medical, LLC	1-Feb-19
+L-242-02/2	Rosenberg, Steven A.	(b)(6)	Biocare Medical, LLC	1-Feb-19
+L-068-19/0	Gazdar, Adi F.		Merck Sharp & Dohme Corp	1-Feb-19
+L-068-19/0	Johnson, Bruce E		Merck Sharp & Dohme Corp	1-Feb-19
+L-068-19/0	Kaye, Frederic J		Merck Sharp & Dohme Corp	1-Feb-19
+L-068-19/0	Kheif, Samir N.		Merck Sharp & Dohme Corp	1-Feb-19
+L-068-19/0	Minna, John D.		Merck Sharp & Dohme Corp	1-Feb-19
+L-068-19/0	Oie, Herbert K		Merck Sharp & Dohme Corp	1-Feb-19
+L-068-19/0	Pass, Harvey I.		Merck Sharp & Dohme Corp	1-Feb-19
+L-083-19/0	Gazdar, Adi F.		Janssen Research & Development, LLC	1-Feb-19
+L-083-19/0	Johnson, Bruce E		Janssen Research & Development, LLC	1-Feb-19
+L-083-19/0	Kaye, Frederic J		Janssen Research & Development, LLC	1-Feb-19
+L-083-19/0	Kheif, Samir N.		Janssen Research & Development, LLC	1-Feb-19
+L-083-19/0	Minna, John D.		Janssen Research & Development, LLC	1-Feb-19
+L-083-19/0	Oie, Herbert K		Janssen Research & Development, LLC	1-Feb-19
+L-083-19/0	Pass, Harvey I.		Janssen Research & Development, LLC	1-Feb-19
+L-071-19/0	Dimitrov, Dimitar S.		Atara Biotherapeutics Inc.	1-Feb-19
+L-071-19/0	Feng, Yang		Atara Biotherapeutics Inc.	1-Feb-19
+L-071-19/0	Pastan, Ira H		Atara Biotherapeutics Inc.	1-Feb-19
+L-071-19/0	NCI		Atara Biotherapeutics Inc.	1-Feb-19
+L-154-18/0	Caplen, Natasha	(b)(4);	ERYtech Pharma	4-Feb-19
+L-154-18/0	Lorenzi, Philipp	(b)(6)	ERYtech Pharma	4-Feb-19
+L-154-18/0	Weinstein, John N.		ERYtech Pharma	4-Feb-19
+L-026-05/8	Bang, Sook-Hee		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Beers, Richard		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Brinkmann, Ulrich		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Fitzgerald, David J.		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Ho, Mitchell		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Jung, Sun-Hee		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Kreitman, Robert J		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Kuan, Chien-Tsun		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Lee, Byungkook		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Mansfield, Elizabeth		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Pastan, Ira H		MedImmune, Inc.	5-Feb-19
+L-026-05/8	Salvatore, Giuliana		MedImmune, Inc.	5-Feb-19
+L-103-09/1	Yamashita, Motozo		Novartis	5-Feb-19
+L-103-09/1	Zhang, Ying E.		Novartis	5-Feb-19
+L-095-19/0	Bonomi, Carrie A.		Elstar Therapeutics	5-Feb-19
+L-095-19/0	Dougherty, Kelly		Elstar Therapeutics	5-Feb-19
+L-095-19/0	Hollingshead, Melinda G.		Elstar Therapeutics	5-Feb-19
+L-009-05/1	Fitzgerald, David J.		Snaofi Pasteur	7-Feb-19
+L-009-05/1	Pastan, Ira H		Snaofi Pasteur	7-Feb-19
<i>Note: L-009-05/1 split between NCI; NICHD; NIDDK</i>				
+L-037-19/0	Hodge, James W.		Merck KGaA	7-Feb-19
+L-037-19/0	Schlom, Jeffrey		Merck KGaA	7-Feb-19
+L-062-19/0	Michie, Megan Suzanne		Roche Molecular Systems, Inc.	7-Feb-19
+L-062-19/0	Schnermann, Martin		Roche Molecular Systems, Inc.	7-Feb-19

+L-093-10/1	Chang, Nancy T.	(b)(4);	BioLytical Labs	7-Feb-19
+L-093-10/1	Crowl, Robert	(b)(6)	BioLytical Labs	7-Feb-19
+L-093-10/1	Gallo, Robert C.		BioLytical Labs	7-Feb-19
+L-093-10/1	(b) (4)		BioLytical Labs	7-Feb-19
+L-093-10/1	Reddy, E. Premkumar.		BioLytical Labs	7-Feb-19
+L-093-10/1	Shaw, George M		BioLytical Labs	7-Feb-19
+L-093-10/1	Wong-Staal, Flossie		BioLytical Labs	7-Feb-19
+L-001-08/1	Austin, Faye C.		Cell Marque Corp	8-Feb-19
+L-001-08/1	Colcher, David		Cell Marque Corp	8-Feb-19
+L-001-08/1	Hand, Patricia H		Cell Marque Corp	8-Feb-19
+L-001-08/1	Nuti, Marianna		Cell Marque Corp	8-Feb-19
+L-001-08/1	Schlom, Jeffrey		Cell Marque Corp	8-Feb-19
+L-002-04/1	Kawakami, Yutaka		Cell Marque	8-Feb-19
+L-002-04/1	Robbins, Paul F		Cell Marque	8-Feb-19
+L-002-04/1	Rosenberg, Steven A.		Cell Marque	8-Feb-19
+L-046-18/0	Bonomi, Carrie A.		Northern Biologics Inc.	8-Feb-19
+L-046-18/0	Borgel, Suzanne D.		Northern Biologics Inc.	8-Feb-19
+L-046-18/0	Dougherty, Kelly		Northern Biologics Inc.	8-Feb-19
+L-046-18/0	Hollingshead, Melinda G.		Northern Biologics Inc.	8-Feb-19
+L-006-18/0	Austin, Faye C.		Diagnostic BioSystems	8-Feb-19
+L-006-18/0	Colcher, David		Diagnostic BioSystems	8-Feb-19
+L-006-18/0	Hand, Patricia H		Diagnostic BioSystems	8-Feb-19
+L-006-18/0	Nuti, Marianna		Diagnostic BioSystems	8-Feb-19
+L-006-18/0	Schlom, Jeffrey		Diagnostic BioSystems	8-Feb-19
+L-058-19/0	Bonomi, Carrie A.		BrightPath Biotherapeutics Co., Ltd.	11-Feb-19
+L-058-19/0	Dougherty, Kelly		BrightPath Biotherapeutics Co., Ltd.	11-Feb-19
+L-058-19/0	Hollingshead, Melinda G.		BrightPath Biotherapeutics Co., Ltd.	11-Feb-19
+L-119-19/0	Esposito, Dominic		Quanta Therapeutics, Inc., University of	11-Feb-19
+L-119-19/0	Gillette, William K.		Quanta Therapeutics, Inc., University of	11-Feb-19
+L-119-19/0	Grose, Carissa L.		Quanta Therapeutics, Inc., University of	11-Feb-19
+L-047-06/2	Chang, Nancy T.		Chembio Diagnostic	11-Feb-19
+L-047-06/2	Crowl, Robert		Chembio Diagnostic	11-Feb-19
+L-047-06/2	Gallo, Robert C.		Chembio Diagnostic	11-Feb-19
+L-047-06/2	(b) (4)		Chembio Diagnostic	11-Feb-19
+L-047-06/2	Reddy, E. Premkumar.		Chembio Diagnostic	11-Feb-19
+L-047-06/2	Shaw, George M		Chembio Diagnostic	11-Feb-19
+L-047-06/2	Wong-Staal, Flossie		Chembio Diagnostic	11-Feb-19
+L-075-16/1	Fry, Terry		Lentigen Corporation	11-Feb-19
+L-075-16/1	Qin, Haiying		Lentigen Corporation	11-Feb-19
+L-250-17/0	Bonomi, Carrie A.		Aragen Bioscience, Inc.	11-Feb-19
+L-250-17/0	Borgel, Suzanne D.		Aragen Bioscience, Inc.	11-Feb-19
+L-250-17/0	Dougherty, Kelly		Aragen Bioscience, Inc.	11-Feb-19
+L-250-17/0	Hollingshead, Melinda G.		Aragen Bioscience, Inc.	11-Feb-19
+L-024-18/0	Gazdar, Adi F.		SeraCare Life	12-Feb-19
+L-024-18/0	Johnson, Bruce E		SeraCare Life	12-Feb-19
+L-024-18/0	Kaye, Frederic J		SeraCare Life	12-Feb-19
+L-024-18/0	Kheif, Samir N.		SeraCare Life	12-Feb-19
+L-024-18/0	Minna, John D.		SeraCare Life	12-Feb-19
+L-024-18/0	Oie, Herbert K		SeraCare Life	12-Feb-19

+L-024-18/0	Pass, Harvey I.	(b)(4); (b)(6)	SeraCare Life	12-Feb-19
+L-161-04/1	Gallo, Robert C.		SeraCare Life Sciences, Inc.	12-Feb-19
+L-161-04/1	(b) (4)		SeraCare Life Sciences, Inc.	12-Feb-19
+L-161-04/1	Popovic, Mikulas		SeraCare Life Sciences, Inc.	12-Feb-19
+L-161-04/1	Sarnagadharan, Mangalasseril		SeraCare Life Sciences, Inc.	12-Feb-19
+L-234-00/5	Gelboin, (b) (6) Harry		Xeno Tech, LLC	12-Feb-19
+L-234-00/5	Gonzalez, Frank J		Xeno Tech, LLC	12-Feb-19
+L-234-00/5	Krausz, Kristopher W.		Xeno Tech, LLC	12-Feb-19
+L-234-00/5	Yang, Tian J.		Xeno Tech, LLC	12-Feb-19
+L-074-19/0	Costantino, Nina		Rubius Therapeutics, Inc.	12-Feb-19
+L-074-19/0	Court, Donald		Rubius Therapeutics, Inc.	12-Feb-19
+L-074-19/0	Datta, Simanti		Rubius Therapeutics, Inc.	12-Feb-19
+L-107-15/1	NCI		Lion Biotechnologies, Inc.	13-Feb-19
<i>Note: L-107-15/1 split between CC; NCI</i>				
+L-232-14/0	NCI		NanoString Technologies, Inc.	14-Feb-19
<i>Note: L-232-14/0 split between CIT; NCI</i>				
+L-045-19/0	Bonomi, Carrie A.	(b)(4); (b)(6)	Alligator Bioscience AB	15-Feb-19
+L-045-19/0	Borgel, Suzanne D.		Alligator Bioscience AB	15-Feb-19
+L-045-19/0	Dougherty, Kelly		Alligator Bioscience AB	15-Feb-19
+L-045-19/0	Hollingshead, Melinda G.		Alligator Bioscience AB	15-Feb-19
+L-045-19/0	Schlom, Jeffrey		Alligator Bioscience AB	15-Feb-19
+L-008-19/0	Doroshov, James H.		AstraZeneca	15-Feb-19
+L-008-19/0	Kinders, Robert		AstraZeneca	15-Feb-19
+L-008-19/0	Marrero, Allison M.		AstraZeneca	15-Feb-19
+L-008-19/0	Parchment, Ralph E.		AstraZeneca	15-Feb-19
+L-008-19/0	Pfister, Thomas D.		AstraZeneca	15-Feb-19
+L-189-16/0	Kirnbauer, Reinhard		HIPRA Scientific	15-Feb-19
+L-189-16/0	Lowy, Douglas R.		HIPRA Scientific	15-Feb-19
+L-189-16/0	Roden, Richard B		HIPRA Scientific	15-Feb-19
+L-189-16/0	Schiller, John T		HIPRA Scientific	15-Feb-19
+L-083-18/1	Bonomi, Carrie A.		Evotec SAS	15-Feb-19
+L-083-18/1	Borgel, Suzanne D.		Evotec SAS	15-Feb-19
+L-083-18/1	Dougherty, Kelly		Evotec SAS	15-Feb-19
+L-083-18/1	Hollingshead, Melinda G.		Evotec SAS	15-Feb-19
+L-002-16/1	NCI		Kite Pharma, Inc.	15-Feb-19
+L-054-19/0	Gopal, Bandi	(b)(4);	BD Biosciences	19-Feb-19
+L-054-19/0	Schnermann, Martin	(b)(6)	BD Biosciences	19-Feb-19
+L-329-17/0	Gao, Wei		Abpro	19-Feb-19
+L-329-17/0	Ho, Mitchell		Abpro	19-Feb-19
+L-329-17/0	Phung, Yen T.		Abpro	19-Feb-19
+L-329-17/0	Zhang, Yifan		Abpro	19-Feb-19
+L-089-18/0	Franchini, Genoveffa		MolMed SPA	19-Feb-19
+L-089-18/0	Gallo, Robert C.		MolMed SPA	19-Feb-19
+L-089-18/0	Kalyanaraman, Vaniambadi S.		MolMed SPA	19-Feb-19
+L-089-18/0	Markham, Phillip D.		MolMed SPA	19-Feb-19
+L-089-18/0	Salahuddin, Syed Z.		MolMed SPA	19-Feb-19

(b) (3) (A), (b) (4), (b) (6)

+L-089-18/0	Wong-Staal, Flossie	(b)(4); (b)(6)	MolMed SPA	19-Feb-19	(b) (3) (A), (b) (4), (b) (6)
+L-361-98/2	Hamilton, Thomas C		BioProcessing, Inc.	19-Feb-19	
+L-361-98/2	Ozols, Robert F		BioProcessing, Inc.	19-Feb-19	
+L-125-13/0	Gazdar, Adi F.		BioRad	19-Feb-19	
+L-125-13/0	Johnson, Bruce E		BioRad	19-Feb-19	
+L-125-13/0	Kaye, Frederic J		BioRad	19-Feb-19	
+L-125-13/0	Khleif, Samir N.		BioRad	19-Feb-19	
+L-125-13/0	Minna, John D.		BioRad	19-Feb-19	
+L-125-13/0	Oie, Herbert K		BioRad	19-Feb-19	
+L-125-13/0	Pass, Harvey I.		BioRad	19-Feb-19	
+L-106-13/1	Dimitrov, Dimiter S.		Opus Bio, Inc.	19-Feb-19	
+L-106-13/1	Mackall, Crystal L		Opus Bio, Inc.	19-Feb-19	
+L-106-13/1	Orentas, Rimas J.		Opus Bio, Inc.	19-Feb-19	
+L-106-13/1	Pastan, Ira H		Opus Bio, Inc.	19-Feb-19	
+L-106-13/1	Xiao, Xiaodong		Opus Bio, Inc.	19-Feb-19	
+L-107-13/1	Beers, Richard		OPUS BIO INC	19-Feb-19	
+L-107-13/1	Kreitman, Robert J		OPUS BIO INC	19-Feb-19	
+L-107-13/1	Mackall, Crystal L		OPUS BIO INC	19-Feb-19	
+L-107-13/1	Orentas, Rimas J.		OPUS BIO INC	19-Feb-19	
+L-107-13/1	Pastan, Ira H		OPUS BIO INC	19-Feb-19	
+L-107-13/1	Salvatore, Giuliana		OPUS BIO INC	19-Feb-19	
+L-073-09/0	Bonner, William M		BioLegend	19-Feb-19	
+L-073-09/0	Rogakou, Efthimia P		BioLegend	19-Feb-19	
+L-095-12/0	Baskar, Sivasubramanian		BioLegend	19-Feb-19	
+L-095-12/0	Rader, Christoph		BioLegend	19-Feb-19	
+L-020-08/2	Roop, Dennis R.		BioLegend	19-Feb-19	
+L-020-08/2	Steinert, (b) (6) Peter M.		BioLegend	19-Feb-19	
+L-020-08/2	Yuspa, Stuart H.		BioLegend	19-Feb-19	
+L-010-08/1	Hathcock, Karen		BioLegend	19-Feb-19	
+L-010-08/1	Hodes, Richard		BioLegend	19-Feb-19	
+L-010-08/1	Laszlo, Gloria		BioLegend	19-Feb-19	
+L-042-08/1	Azimi, Nazli		BioLegend	19-Feb-19	
+L-042-08/1	Dubois, Sigrid		BioLegend	19-Feb-19	
+L-042-08/1	Goldman, Carolyn		BioLegend	19-Feb-19	
+L-042-08/1	Lantz, Valerie A		BioLegend	19-Feb-19	
+L-042-08/1	Mariner Kilbourne, Jennifer		BioLegend	19-Feb-19	
+L-042-08/1	Waldmann, Thomas A.		BioLegend	19-Feb-19	
+L-070-12/0	Hathcock, Karen		BioLegend	19-Feb-19	
+L-070-12/0	Hodes, Richard		BioLegend	19-Feb-19	
+L-070-12/0	Laszlo, Gloria		BioLegend	19-Feb-19	
+L-007-11/1	Onda, Masanori		BioLegend	19-Feb-19	
+L-007-11/1	Pastan, Ira H		BioLegend	19-Feb-19	
+L-037-11/0	Jelinek, Ivett		BioLegend	19-Feb-19	
+L-037-11/0	Segal, David M.		BioLegend	19-Feb-19	
+L-037-11/0	Wang, Yan		BioLegend	19-Feb-19	
+L-162-08/1	Roberts, (b) (6) Anita		BioLegend	19-Feb-19	

+L-162-08/1	Sporn, Michael B. <i>Note: L-162-08/1 split between NCI; NIAID</i>	(b)(4); (b)(6)	BioLegend	19-Feb-19
+L-198-15/0	Ise, Tomoko		BioLegend	19-Feb-19
+L-198-15/0	Nagata, Satoshi		BioLegend	19-Feb-19
+L-198-15/0	Pastan, Ira H		BioLegend	19-Feb-19
+L-136-09/0	Mason, Llewellyn H.		BioLegend	19-Feb-19
+L-136-09/0	Ortaldo, John R.		BioLegend	19-Feb-19
+L-265-17/1	Hanada, Kenichi		Pfizer, Inc.	20-Feb-19
+L-265-17/1	Yang, James C		Pfizer, Inc.	20-Feb-19
+L-265-17/1	Yu, Zhiya		Pfizer, Inc.	20-Feb-19
+L-232-14/0	NCI <i>Note: L-232-14/0 split between CIT; NCI</i>		NanoString Technologies, Inc.	20-Feb-19
+L-011-06/0	Barry, Todd	(b)(4);	Dako Denmark A/S	21-Feb-19
+L-011-06/0	Rosenwald, Andreas	(b)(6)	Dako Denmark A/S	21-Feb-19
+L-011-06/0	Staudt, Louis M		Dako Denmark A/S	21-Feb-19
+L-011-06/0	Wiestner, Adrian		Dako Denmark A/S	21-Feb-19
+L-011-06/0	Wilson, Wyndham H.		Dako Denmark A/S	21-Feb-19
+L-149-08/2	NCI		BN Immuno Therapeutics	21-Feb-19
+L-100-05/0	Hollingshead, Melinda G.	(b)(4);	InvivoGen., Inc.	21-Feb-19
+L-100-05/0	Sausville, Edward	(b)(6)	InvivoGen., Inc.	21-Feb-19
+L-100-05/0	Snader, Kenneth M		InvivoGen., Inc.	21-Feb-19
+L-100-05/0	Vishnuvajjala, B. Rao		InvivoGen., Inc.	21-Feb-19
+L-111-19/0	Bonomi, Carrie A.		Innate Pharma Research Labs	22-Feb-19
+L-111-19/0	Borgel, Suzanne D.		Innate Pharma Research Labs	22-Feb-19
+L-111-19/0	Dougherty, Kelly		Innate Pharma Research Labs	22-Feb-19
+L-111-19/0	Hollingshead, Melinda G.		Innate Pharma Research Labs	22-Feb-19
+L-220-01/0	(b) (4)		Tibotec Pharm Ltd.	22-Feb-19
+L-039-18/0	Gazdar, Adi F.		Eurofins Cerep	22-Feb-19
+L-039-18/0	Johnson, Bruce E		Eurofins Cerep	22-Feb-19
+L-039-18/0	Kaye, Frederic J		Eurofins Cerep	22-Feb-19
+L-039-18/0	Kheif, Samir N.		Eurofins Cerep	22-Feb-19
+L-039-18/0	Minna, John D.		Eurofins Cerep	22-Feb-19
+L-039-18/0	Oie, Herbert K		Eurofins Cerep	22-Feb-19
+L-039-18/0	Pass, Harvey I.		Eurofins Cerep	22-Feb-19
+L-153-18/0	Bonomi, Carrie A.		Halozyme	22-Feb-19
+L-153-18/0	Borgel, Suzanne D.		Halozyme	22-Feb-19
+L-153-18/0	Dougherty, Kelly		Halozyme	22-Feb-19
+L-153-18/0	Hollingshead, Melinda G.		Halozyme	22-Feb-19
+L-109-19/0	Bonomi, Carrie A.		F-star Biotechnology Ltd	25-Feb-19
+L-109-19/0	Dougherty, Kelly		F-star Biotechnology Ltd	25-Feb-19
+L-109-19/0	Hollingshead, Melinda G.		F-star Biotechnology Ltd	25-Feb-19
+L-115-95/2	Greenstone, Heather L.		MedImmune, Inc.	25-Feb-19
+L-115-95/2	Kirnbauer, Reinhard		MedImmune, Inc.	25-Feb-19
+L-115-95/2	Lowy, Douglas R.		MedImmune, Inc.	25-Feb-19
+L-115-95/2	Schiller, John T		MedImmune, Inc.	25-Feb-19

+L-025-18/0	Hanada, Kenichi	(b)(4);	CTG Pharma LTD	26-Feb-19
+L-025-18/0	Yang, James C	(b)(6)	CTG Pharma LTD	26-Feb-19
+L-025-18/0	Yu, Zhiya		CTG Pharma LTD	26-Feb-19
+L-249-14/0	Copeland, Neal		Merck Sharp & Dohme Corp.	26-Feb-19
+L-249-14/0	Costantino, Nina		Merck Sharp & Dohme Corp.	26-Feb-19
+L-249-14/0	Court, Donald		Merck Sharp & Dohme Corp.	26-Feb-19
+L-249-14/0	Ellis, Hilary Moyed		Merck Sharp & Dohme Corp.	26-Feb-19
+L-249-14/0	Jenkins Copeland, Nancy A		Merck Sharp & Dohme Corp.	26-Feb-19
+L-249-14/0	Lee, E-Chiang		Merck Sharp & Dohme Corp.	26-Feb-19
+L-249-14/0	Liu, Pentao		Merck Sharp & Dohme Corp.	26-Feb-19
+L-249-14/0	Sharan, Shyam K		Merck Sharp & Dohme Corp.	26-Feb-19
+L-249-14/0	Swaminathan, Srividya		Merck Sharp & Dohme Corp.	26-Feb-19
+L-249-14/0	Warming, Soren		Merck Sharp & Dohme Corp.	26-Feb-19
+L-249-14/0	Yu, Daiguan		Merck Sharp & Dohme Corp.	26-Feb-19
+L-093-16/0	Esposito, Dominic		Lifer Technologies Corporation	27-Feb-19
+L-217-14/1	NCI		Medicenna Therapeutics, Inc.	27-Feb-19

Note: L-217-14/1 split between NCI; NINDS

NIH Patent Licensing Activities
NCI
March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-165-99/1	Crowl, Robert	(b)(4);	Trinity Biotech	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-165-99/1	Gallo, Robert C.	(b)(6)	Trinity Biotech	1-Mar-19						
+L-165-99/1	(b) (4)		Trinity Biotech	1-Mar-19						
+L-165-99/1	Popovic, Mikulas		Trinity Biotech	1-Mar-19						
+L-165-99/1	Reddy, E. Premkumar.		Trinity Biotech	1-Mar-19						
+L-165-99/1	Sarngadharan, Mangalasseril		Trinity Biotech	1-Mar-19						
+L-165-99/1	Shaw, George M		Trinity Biotech	1-Mar-19						
+L-165-99/1	Wong-Staal, Flossie		Trinity Biotech	1-Mar-19						
+L-083-11/0	Waldmann, Thomas A.		Abbott Biotherapeutics Corp.	1-Mar-19						
Note: L-083-11/0 split between NCI; NINDS										
+L-308-17/0	NCI		Rapa Therapeutics LLC	1-Mar-19						
+L-239-15/0	Gazdar, Adi F.	(b)(4);	Dako North America	1-Mar-19						
+L-239-15/0	Johnson, Bruce E	(b)(6)	Dako North America	1-Mar-19						
+L-239-15/0	Kaye, Frederic J		Dako North America	1-Mar-19						
+L-239-15/0	Khleif, Samir N.		Dako North America	1-Mar-19						
+L-239-15/0	Minna, John D.		Dako North America	1-Mar-19						
+L-239-15/0	Oie, Herbert K		Dako North America	1-Mar-19						
+L-239-15/0	Pass, Harvey I.		Dako North America	1-Mar-19						
+L-239-15/0	Gazdar, Adi F.		Dako North America	1-Mar-19						
+L-239-15/0	Johnson, Bruce E		Dako North America	1-Mar-19						
+L-239-15/0	Kaye, Frederic J		Dako North America	1-Mar-19						
+L-239-15/0	Khleif, Samir N.		Dako North America	1-Mar-19						
+L-239-15/0	Minna, John D.		Dako North America	1-Mar-19						
+L-239-15/0	Oie, Herbert K		Dako North America	1-Mar-19						
+L-239-15/0	Pass, Harvey I.		Dako North America	1-Mar-19						

+L-011-06/0	NCI	Dako Denmark A/S	1-Mar-19
+L-084-11/2	Gazdar, Adi F.	(b)(4);	1-Mar-19
+L-084-11/2	Johnson, Bruce E	(b)(6)	1-Mar-19
+L-084-11/2	Kaye, Frederic J	Nichirei Biosciences Inc	1-Mar-19
+L-084-11/2	Khleif, Samir N.	Nichirei Biosciences Inc	1-Mar-19
+L-084-11/2	Minna, John D.	Nichirei Biosciences Inc	1-Mar-19
+L-084-11/2	Oie, Herbert K	Nichirei Biosciences Inc	1-Mar-19
+L-084-11/2	Pass, Harvey I.	Nichirei Biosciences Inc	1-Mar-19
+L-298-96/2	Greenstone, Heather L.	Merck & Co., Inc.	1-Mar-19
+L-298-96/2	Kirnbauer, Reinhard	Merck & Co., Inc.	1-Mar-19
+L-298-96/2	Lowy, Douglas R.	Merck & Co., Inc.	1-Mar-19
+L-298-96/2	Schiller, John T	Merck & Co., Inc.	1-Mar-19
+L-122-17/0	Choyke, Peter L	Koninklijke Philips N.V.	1-Mar-19
+L-122-17/0	Pinto, Peter A	Koninklijke Philips N.V.	1-Mar-19
+L-122-17/0	Turkbey, Ismail B.	Koninklijke Philips N.V.	1-Mar-19
<i>Note: L-122-17/0 split between CC; NCI</i>			
+L-245-94/1	Gallo, Robert C.	Boston Biomedics	1-Mar-19
+L-245-94/1	(b) (4)	Boston Biomedics	1-Mar-19
+L-245-94/1	Popovic, Mikulas	Boston Biomedics	1-Mar-19
+L-245-94/1	Sarnagadharan, Mangalasseril	Boston Biomedics	1-Mar-19
<i>Note: L-245-94/1 split between NCI; NIAID</i>			
+L-137-19/0	Bonomi, Carrie A.	Good Therapeutics, Inc.	1-Mar-19
+L-137-19/0	Borgel, Suzanne D.	Good Therapeutics, Inc.	1-Mar-19
+L-137-19/0	Dougherty, Kelly	Good Therapeutics, Inc.	1-Mar-19
+L-137-19/0	Hollingshead, Melinda G.	Good Therapeutics, Inc.	1-Mar-19
+L-137-19/0	Bonomi, Carrie A.	Good Therapeutics, Inc.	1-Mar-19
+L-137-19/0	Borgel, Suzanne D.	Good Therapeutics, Inc.	1-Mar-19
+L-137-19/0	Dougherty, Kelly	Good Therapeutics, Inc.	1-Mar-19
+L-137-19/0	Hollingshead, Melinda G.	Good Therapeutics, Inc.	1-Mar-19
+L-106-19/0	Bonomi, Carrie A.	Dracen Pharmaceuticals, Inc.	1-Mar-19
+L-106-19/0	Borgel, Suzanne D.	Dracen Pharmaceuticals, Inc.	1-Mar-19
+L-106-19/0	Dougherty, Kelly	Dracen Pharmaceuticals, Inc.	1-Mar-19
+L-106-19/0	Hollingshead, Melinda G.	Dracen Pharmaceuticals, Inc.	1-Mar-19
+L-111-13/0	Muchmore, Brian P.	EMD Millipore Corp.	1-Mar-19
+L-111-13/0	O'Brien, Thomas R	EMD Millipore Corp.	1-Mar-19
+L-111-13/0	Porter-Gill, Patricia A.	EMD Millipore Corp.	1-Mar-19
+L-111-13/0	Prokunina-Olsson, Ludmila	EMD Millipore Corp.	1-Mar-19
<i>Note: L-111-13/0 split between FDA; NCI</i>			
+L-097-15/0	Rubin, Jeffrey S	EMD Millipore Corp.	1-Mar-19
+L-097-15/0	Uren, Aykut	EMD Millipore Corp.	1-Mar-19
+L-250-15/0	Adachi, Yoshifumi	EMD Millipore Corp.	1-Mar-19
+L-250-15/0	Copeland, Terry D.	EMD Millipore Corp.	1-Mar-19
+L-250-15/0	Pavlikis, George N	EMD Millipore Corp.	1-Mar-19
+L-250-15/0	Specht, Suzanne I.	EMD Millipore Corp.	1-Mar-19
+L-057-16/1	Hollingshead, Melinda G.	EMD Millipore Corporation	1-Mar-19
+L-057-16/1	Sausville, Edward	EMD Millipore Corporation	1-Mar-19
+L-057-16/1	Snader, Kenneth M	EMD Millipore Corporation	1-Mar-19
+L-057-16/1	Vishnuvajjala, B. Rao	EMD Millipore Corporation	1-Mar-19

+L-049-01/3	Bustin, Michael	(b)(4); (b)(6)	Upstate	1-Mar-19	(b) (3) (A), (b) (4), (b) (6)
+L-152-13/0	Doroshov, James H.		EMD Millipore Corp	1-Mar-19	
+L-152-13/0	Jiang, Guojian		EMD Millipore Corp	1-Mar-19	
+L-152-13/0	Roy, Krishnendu K.		EMD Millipore Corp	1-Mar-19	
+L-152-13/0	Wu, Yongzhong		EMD Millipore Corp	1-Mar-19	
+L-109-13/0	Allegra, Carmen		EMD Millipore Corp.	1-Mar-19	
+L-109-13/0	Chabner, Bruce A		EMD Millipore Corp.	1-Mar-19	
+L-109-13/0	Johnston, Patrick G.		EMD Millipore Corp.	1-Mar-19	
+L-109-13/0	Liang, Chi-Ming		EMD Millipore Corp.	1-Mar-19	
+L-015-11/0	Landry, Joseph W.		Millipore Corp	1-Mar-19	
+L-015-11/0	Wu, Carl		Millipore Corp	1-Mar-19	
+L-144-00/1	Bonner, William M		Upstate Biotechnology	1-Mar-19	
+L-144-00/1	Rogakou, Efthimia P		Upstate Biotechnology	1-Mar-19	
+L-041-98/2	Alimandi, Maurizio		Upstate Biotechnology, Incorporated	1-Mar-19	
+L-041-98/2	Pierce, Jacalyn		Upstate Biotechnology, Incorporated	1-Mar-19	
+L-041-98/2	Wang, Ling-Mei		Upstate Biotechnology, Incorporated	1-Mar-19	
+L-154-97/2	Mason, Llewellyn H.		PharMingen, Inc.	4-Mar-19	
+L-154-97/2	Ortaldo, John R.		PharMingen, Inc.	4-Mar-19	
+L-097-00/2	Austin, Faye C.		BD Biosciences, PharMingen	4-Mar-19	
+L-097-00/2	Colcher, David		BD Biosciences, PharMingen	4-Mar-19	
+L-097-00/2	Hand, Patricia H		BD Biosciences, PharMingen	4-Mar-19	
+L-097-00/2	Nuti, Marianna		BD Biosciences, PharMingen	4-Mar-19	
+L-097-00/2	Schlom, Jeffrey		BD Biosciences, PharMingen	4-Mar-19	
+L-100-12/1	Ise, Tomoko		BD Biosciences	4-Mar-19	
+L-100-12/1	Nagata, Satoshi		BD Biosciences	4-Mar-19	
+L-076-16/0	Azimi, Nazli		BD Biosciences	4-Mar-19	
+L-076-16/0	Dubois, Sigrid		BD Biosciences	4-Mar-19	
+L-076-16/0	Goldman, Carolyn		BD Biosciences	4-Mar-19	
+L-076-16/0	Lantz, Valerie A		BD Biosciences	4-Mar-19	
+L-076-16/0	Mariner Kilbourne, Jennifer		BD Biosciences	4-Mar-19	
+L-076-16/0	Waldmann, Thomas A.		BD Biosciences	4-Mar-19	
+L-017-89/0	Aaronson, Stuart A.		Schering AG	4-Mar-19	
+L-017-89/0	King, Charles R.		Schering AG	4-Mar-19	
+L-017-89/0	Kraus, (b) (6) Matthias		Schering AG	4-Mar-19	
+L-093-10/1	Chang, Nancy T.		BioLytical Labs	4-Mar-19	
+L-093-10/1	Crowl, Robert		BioLytical Labs	4-Mar-19	
+L-093-10/1	Gallo, Robert C.		BioLytical Labs	4-Mar-19	
+L-093-10/1	(b) (4)		BioLytical Labs	4-Mar-19	
+L-093-10/1	Reddy, E. Premkumar.		BioLytical Labs	4-Mar-19	
+L-093-10/1	Shaw, George M		BioLytical Labs	4-Mar-19	
+L-093-10/1	Wong-Staal, Flossie		BioLytical Labs	4-Mar-19	
+L-049-94/1	Cheng, Sheue-Yann		Affinity BioReagents	4-Mar-19	
+L-037-17/2	Esposito, Dominic		KeraFAST	4-Mar-19	
+L-037-17/2	Hopkins, Ralph F.		KeraFAST	4-Mar-19	

+L-039-17/0	Day, Chi-Ping	(b)(4);	KeraFAST	4-Mar-19
+L-039-17/0	Esposito, Dominic	(b)(6)	KeraFAST	4-Mar-19
+L-039-17/0	Merlino, Glenn T.		KeraFAST	4-Mar-19
+L-054-17/0	Barrett, J Carl		KeraFAST	4-Mar-19
+L-054-17/0	Custer, Mary		KeraFAST	4-Mar-19
+L-054-17/0	Risinger, John		KeraFAST	4-Mar-19
+L-086-17/0	Rader, Christoph		KeraFAST	4-Mar-19
+L-192-15/1	Burgess, Rebecca C.		KeraFAST	4-Mar-19
+L-192-15/1	Misteli, Thomas		KeraFAST	4-Mar-19
+L-192-15/1	Roukos, Vasileios		KeraFAST	4-Mar-19
+L-192-15/1	Soutoglou, Evi		KeraFAST	4-Mar-19
+L-272-16/0	Bonomi, Carrie A.		KeraFAST	4-Mar-19
+L-272-16/0	Borgel, Suzanne D.		KeraFAST	4-Mar-19
+L-272-16/0	Dougherty, Kelly		KeraFAST	4-Mar-19
+L-272-16/0	Hollingshead, Melinda G.		KeraFAST	4-Mar-19
+L-226-15/2	Hodge, James W.		KeraFAST	4-Mar-19
+L-226-15/2	Schlom, Jeffrey		KeraFAST	4-Mar-19
+L-004-07/2	Qasba, Pradman		Life Technologies Corp.	4-Mar-19
+L-004-07/2	Ramakrishnan, Boopathy		Life Technologies Corp.	4-Mar-19
+L-274-16/0	Brash, Douglas		KeraFAST	4-Mar-19
+L-274-16/0	Gerwin, Brenda I.		KeraFAST	4-Mar-19
+L-274-16/0	Harris, Curtis C.		KeraFAST	4-Mar-19
+L-274-16/0	Reddel, Roger R.		KeraFAST	4-Mar-19
+L-274-16/0	Rhim, John S.		KeraFAST	4-Mar-19
+L-274-16/0	Yang, Ke		KeraFAST	4-Mar-19
+L-154-17/0	Bonomi, Carrie A.		Agios Pharmaceuticals	5-Mar-19
+L-154-17/0	Borgel, Suzanne D.		Agios Pharmaceuticals	5-Mar-19
+L-154-17/0	Dougherty, Kelly		Agios Pharmaceuticals	5-Mar-19
+L-154-17/0	Hollingshead, Melinda G.		Agios Pharmaceuticals	5-Mar-19
+L-055-12/1	Gazdar, Adi F.		Molecular Imaging	5-Mar-19
+L-055-12/1	Johnson, Bruce E		Molecular Imaging	5-Mar-19
+L-055-12/1	Kaye, Frederic J		Molecular Imaging	5-Mar-19
+L-055-12/1	Kheif, Samir N.		Molecular Imaging	5-Mar-19
+L-055-12/1	Minna, John D.		Molecular Imaging	5-Mar-19
+L-055-12/1	Oie, Herbert K		Molecular Imaging	5-Mar-19
+L-055-12/1	Pass, Harvey I.		Molecular Imaging	5-Mar-19
+L-091-10/1	Bonner, William M		Novus Biologicals, Inc.	5-Mar-19
+L-091-10/1	Rogakou, Efthimia P		Novus Biologicals, Inc.	5-Mar-19
+L-268-14/0	Bluestone, Jeffrey A		Novus Biologicals	5-Mar-19
+L-268-14/0	Leo, Oberdan		Novus Biologicals	5-Mar-19
+L-268-14/0	Vos, Michele		Novus Biologicals	5-Mar-19
+L-078-19/0	Bonomi, Carrie A.		OMEROS Corporation	5-Mar-19
+L-078-19/0	Borgel, Suzanne D.		OMEROS Corporation	5-Mar-19
+L-078-19/0	Dougherty, Kelly		OMEROS Corporation	5-Mar-19
+L-078-19/0	Hollingshead, Melinda G.		OMEROS Corporation	5-Mar-19
+L-173-05/2	Allegra, Carmen		Santa Cruz Biotechnology, Inc.	6-Mar-19

(b) (3) (A), (b) (4), (b) (6)

+L-173-05/2	Chabner, Bruce A	(b)(4);	Santa Cruz Biotechnology, Inc.	6-Mar-19
+L-173-05/2	Johnston, Patrick G.	(b)(6)	Santa Cruz Biotechnology, Inc.	6-Mar-19
+L-173-05/2	Liang, Chi-Ming		Santa Cruz Biotechnology, Inc.	6-Mar-19
+L-129-19/0	Chung-YIn Yang, James		Innovo Mimetics Limited	6-Mar-19
+L-129-19/0	Hanada, Kenichi		Innovo Mimetics Limited	6-Mar-19
+L-129-19/0	Yu, Zhiya		Innovo Mimetics Limited	6-Mar-19
+L-201-16/0	Chang, Nancy T.		F. Hoffmann-La Roche Ltd	7-Mar-19
+L-201-16/0	Crowl, Robert		F. Hoffmann-La Roche Ltd	7-Mar-19
+L-201-16/0	Fisher, Amanda G.		F. Hoffmann-La Roche Ltd	7-Mar-19
+L-201-16/0	Gallo, Robert C.		F. Hoffmann-La Roche Ltd	7-Mar-19
+L-201-16/0	Hahn, Beatrice		F. Hoffmann-La Roche Ltd	7-Mar-19
+L-201-16/0	Popovic, Mikulas		F. Hoffmann-La Roche Ltd	7-Mar-19
+L-201-16/0	Reddy, E. Premkumar.		F. Hoffmann-La Roche Ltd	7-Mar-19
+L-201-16/0	Sarnagadharan, Mangalasseril		F. Hoffmann-La Roche Ltd	7-Mar-19
+L-201-16/0	Shaw, George M		F. Hoffmann-La Roche Ltd	7-Mar-19
+L-201-16/0	Wong-Staal, Flossie		F. Hoffmann-La Roche Ltd	7-Mar-19
+L-271-01/8	Gupta, Shanker Lal		Millennium Pharmaceuticals, Inc.	7-Mar-19
+L-271-01/8	(b) (4)		Millennium Pharmaceuticals, Inc.	7-Mar-19
+L-039-11/0	Onda, Masanori		Rockland Immunochemicals, Inc.	8-Mar-19
+L-121-19/0	Gottesman, Michael M.		Axcelead Drug Discovery Partners, Inc	8-Mar-19
+L-121-19/0	Ueda, Kazumitsu		Axcelead Drug Discovery Partners, Inc	8-Mar-19
+L-165-18/0	Baskar, Sivasubramanian		Exbio Praha	11-Mar-19
+L-165-18/0	Rader, Christoph		Exbio Praha	11-Mar-19
+L-102-13/0	Hathcock, Karen		EXBIO Praha	11-Mar-19
+L-102-13/0	Hodes, Richard		EXBIO Praha	11-Mar-19
+L-102-13/0	Laszlo, Gloria		EXBIO Praha	11-Mar-19
<i>Note: L-102-13/0 split between NCI; NIA</i>				
+L-092-13/0	Potter, (b) (6) Michael		EXBIO Praha	11-Mar-19
+L-003-12/0	Potter, (b) (6) Michael		Exbio Praha AS	11-Mar-19
+L-137-10/1	Potter, (b) (6) Michael		Exbio	11-Mar-19
+L-331-17/1	NCI		Istari Oncology Inc	12-Mar-19
+L-064-19/0	Bonomi, Carrie A.		Torque Therapeutics, Inc.	12-Mar-19
+L-064-19/0	Borgel, Suzanne D.		Torque Therapeutics, Inc.	12-Mar-19
+L-064-19/0	Dougherty, Kelly		Torque Therapeutics, Inc.	12-Mar-19
+L-064-19/0	Hollingshead, Melinda G.		Torque Therapeutics, Inc.	12-Mar-19
+L-084-19/0	Gelboin, (b) (6) Harry		Biopredic U.S., Inc.	12-Mar-19
+L-084-19/0	Gonzalez, Frank J		Biopredic U.S., Inc.	12-Mar-19
+L-084-19/0	Krausz, Kristopher W.		Biopredic U.S., Inc.	12-Mar-19
+L-084-19/0	Gelboin, (b) (6) Harry		Biopredic U.S., Inc.	12-Mar-19
+L-084-19/0	Gonzalez, Frank J		Biopredic U.S., Inc.	12-Mar-19
+L-084-19/0	Krausz, Kristopher W.		Biopredic U.S., Inc.	12-Mar-19
+L-138-19/0	Bagni- Beyer, Rachel K.		Quanta Therapeutics, Inc., University of	12-Mar-19
+L-138-19/0	(b) (4)		Quanta Therapeutics, Inc., University of	12-Mar-19
+L-138-19/0	Holderfield, Matthew T.		Quanta Therapeutics, Inc., University of	12-Mar-19

+L-138-19/0	Soppet, Dan	(b)(4);	Quanta Therapeutics, Inc., University of	12-Mar-19
+L-063-19/0	NCI		Tailored Therapeutics, LLC	12-Mar-19
+L-079-08/0	NCI		Theranstics Health	13-Mar-19
<i>Note: L-079-08/0 split between FDA; NCI</i>				
+L-059-19/0	Chung-Yln Yang, James	(b)(4);	Regeneron Pharmaceuticals, Inc	13-Mar-19
+L-059-19/0	Rosenberg, Steven A.	(b)(6)	Regeneron Pharmaceuticals, Inc	13-Mar-19
+L-059-19/0	Spiese, Paul J		Regeneron Pharmaceuticals, Inc	13-Mar-19
+L-107-19/0	Bonomi, Carrie A.		Trillium Therapeutics Inc.	14-Mar-19
+L-107-19/0	Borge, Suzanne D.		Trillium Therapeutics Inc.	14-Mar-19
+L-107-19/0	Dougherty, Kelly		Trillium Therapeutics Inc.	14-Mar-19
+L-107-19/0	Hollingshead, Melinda G.		Trillium Therapeutics Inc.	14-Mar-19
+L-329-17/0	NCI		Abpro	15-Mar-19
+L-106-18/0	Bonomi, Carrie A.	(b)(4);	KSQ Therapeutics	18-Mar-19
+L-106-18/0	Dougherty, Kelly	(b)(6)	KSQ Therapeutics	18-Mar-19
+L-106-18/0	Hollingshead, Melinda G.		KSQ Therapeutics	18-Mar-19
+L-013-01/1	Austin, Faye C.		NeoMarkers, Inc.	19-Mar-19
+L-013-01/1	Colcher, David		NeoMarkers, Inc.	19-Mar-19
+L-013-01/1	Hand, Patricia H		NeoMarkers, Inc.	19-Mar-19
+L-013-01/1	Nuti, Marianna		NeoMarkers, Inc.	19-Mar-19
+L-013-01/1	Schlom, Jeffrey		NeoMarkers, Inc.	19-Mar-19
+L-082-16/0	Franchini, Genoveffa		Gilead Sciences	19-Mar-19
+L-082-16/0	Gallo, Robert C.		Gilead Sciences	19-Mar-19
+L-082-16/0	Gartner, Suzanne		Gilead Sciences	19-Mar-19
+L-082-16/0	(b) (4)		Gilead Sciences	19-Mar-19
+L-082-16/0	Lori, Franco C.		Gilead Sciences	19-Mar-19
+L-082-16/0	Markham, Phillip D.		Gilead Sciences	19-Mar-19
+L-082-16/0	Popovic, Mikulas		Gilead Sciences	19-Mar-19
+L-082-16/0	Reitz, Jr., Marvin S.		Gilead Sciences	19-Mar-19
+L-090-98/1	Allegra, Carmen		NeoMarkers, Inc.	19-Mar-19
+L-090-98/1	Chabner, Bruce A		NeoMarkers, Inc.	19-Mar-19
+L-090-98/1	(b) (4)		NeoMarkers, Inc.	19-Mar-19
+L-090-98/1	Johnston, Patrick G.		NeoMarkers, Inc.	19-Mar-19
+L-090-98/1	Kawakami, Yutaka		NeoMarkers, Inc.	19-Mar-19
+L-090-98/1	Liang, Chi-Ming		NeoMarkers, Inc.	19-Mar-19
+L-090-98/1	Rosenberg, Steven A.		NeoMarkers, Inc.	19-Mar-19
+L-090-98/1	Schlom, Jeffrey		NeoMarkers, Inc.	19-Mar-19
+L-090-98/1	(b) (4)		NeoMarkers, Inc.	19-Mar-19
+L-146-19/0	Hinrichs, Christian S.		Adicet Bio	19-Mar-19
+L-146-19/0	Yongzu Jin, Benjamin		Adicet Bio	19-Mar-19
+L-133-19/0	Aaronson, Stuart A.		DNAtrix, Inc.	19-Mar-19
+L-133-19/0	Giard, Donald		DNAtrix, Inc.	19-Mar-19
+L-133-19/0	Parks, Wade P		DNAtrix, Inc.	19-Mar-19
+L-091-04/1	Makrigiannis, Andrew P.		Ebioscience	20-Mar-19
+L-114-06/1	Azimi, Nazli		Affymetrix, Inc.	20-Mar-19
+L-114-06/1	Dubois, Sigrid		Affymetrix, Inc.	20-Mar-19
+L-114-06/1	Goldman, Carolyn		Affymetrix, Inc.	20-Mar-19

+L-114-06/1	Lantz, Valerie A	(b)(4):	Affymetrix, Inc.	20-Mar-19
+L-114-06/1	Mariner Kilbourne, Jennifer	(b)(6)	Affymetrix, Inc.	20-Mar-19
+L-114-06/1	Waldmann, Thomas A.		Affymetrix, Inc.	20-Mar-19
+L-049-00/1	Hathcock, Karen		eBioscience, Inc..	20-Mar-19
+L-049-00/1	Hodes, Richard		eBioscience, Inc..	20-Mar-19
+L-049-00/1	Laszlo, Gloria		eBioscience, Inc..	20-Mar-19
<i>Note: L-049-00/1 split between NCI; NIAID</i>				
+L-006-19/0	Gazdar, Adi F.		Genentech, Inc	21-Mar-19
+L-006-19/0	Johnson, Bruce E		Genentech, Inc	21-Mar-19
+L-006-19/0	Kaye, Frederic J		Genentech, Inc	21-Mar-19
+L-006-19/0	Kheif, Samir N.		Genentech, Inc	21-Mar-19
+L-006-19/0	Minna, John D.		Genentech, Inc	21-Mar-19
+L-006-19/0	Oie, Herbert K		Genentech, Inc	21-Mar-19
+L-006-19/0	Pass, Harvey I.		Genentech, Inc	21-Mar-19
+L-144-00/1	Bonner, William M		Upstate Biotechnology	22-Mar-19
+L-144-00/1	Rogakou, Efthimia P		Upstate Biotechnology	22-Mar-19
+L-108-19/0	Bonomi, Carrie A.		GB006 (Gossamer Bio, Inc.)	26-Mar-19
+L-108-19/0	Borgel, Suzanne D.		GB006 (Gossamer Bio, Inc.)	26-Mar-19
+L-108-19/0	Dougherty, Kelly		GB006 (Gossamer Bio, Inc.)	26-Mar-19
+L-108-19/0	Hollingshead, Melinda G.		GB006 (Gossamer Bio, Inc.)	26-Mar-19
+L-050-05/0	Aaronson, Stuart A.		Research & Diagnostic Systems Inc	28-Mar-19
+L-050-05/0	Finch, Paul W.		Research & Diagnostic Systems Inc	28-Mar-19
+L-050-05/0	He, Xi		Research & Diagnostic Systems Inc	28-Mar-19
+L-050-05/0	Rubin, Jeffrey S		Research & Diagnostic Systems Inc	28-Mar-19
+L-091-09/0	Bonner, William M		Research & Diagnostic Systems, Inc.	28-Mar-19
+L-091-09/0	Rogakou, Efthimia P		Research & Diagnostic Systems, Inc.	28-Mar-19

(b) (3) (A), (b) (4), (b) (6)

\$38 810 103.03	\$1 640 494.09	\$40 450 597.12	\$15 120 758.73	\$25 329 838.39
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NEI
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
NEI
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
NEI
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
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NIH Patent Licensing Activities
NEI
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
L-025-02/0	NEI		Chemicon International Inc	14-Jan-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-025-02/0 split between NEI; NINDS</i>										
+L-025-02/0	Becerra, Sofia P	(b)(4);	Chemicon International Inc	14-Jan-19						
+L-025-02/0	Chader, Gerald J	(b)(6)	Chemicon International Inc	14-Jan-19						
+L-025-02/0	Rodriguez, Ignacio R		Chemicon International Inc	14-Jan-19						
+L-025-02/0	Steele, Fintan R.		Chemicon International Inc	14-Jan-19						
+L-025-02/0	Tombran-Tink, Joyce		Chemicon International Inc	14-Jan-19						
+L-025-02/0	(b) (4)		Chemicon International Inc	14-Jan-19						
<i>Note: L-025-02/0 split between NEI; NINDS</i>										

NIH Patent Licensing Activities
NEI
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
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NIH Patent Licensing Activities
NEI

March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-230-02/1	Bunce, George E.	(b)(4);	Bausch & Lomb	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-230-02/1	Ferris III, Frederick L.	(b)(6)	Bausch & Lomb	1-Mar-19						
+L-230-02/1	Kinoshita, (b) (6) Jin H		Bausch & Lomb	1-Mar-19						
+L-230-02/1	Smith, James Cecil		Bausch & Lomb	1-Mar-19						
+L-139-19/0	Amaral, Juan A		Opsis Therapeutics, LLC	1-Mar-19						
+L-139-19/0	Bharti, Kapil		Opsis Therapeutics, LLC	1-Mar-19						
+L-139-19/0	Charles, Steven Thomas		Opsis Therapeutics, LLC	1-Mar-19						
+L-139-19/0	Khristov, Vladimir R.		Opsis Therapeutics, LLC	1-Mar-19						
+L-139-19/0	Maminishkis, Arvydas		Opsis Therapeutics, LLC	1-Mar-19						
+L-139-19/0	Quinn, Russell L		Opsis Therapeutics, LLC	1-Mar-19						
+L-139-19/0	Song, Min Jae		Opsis Therapeutics, LLC	1-Mar-19						
+L-168-15/0	Li, Tiansen		EMD Millipore Corp.	1-Mar-19						
+L-168-15/0	Swaroop, Anand		EMD Millipore Corp.	1-Mar-19						
+L-025-02/0	NEI		Chemicon International Inc	1-Mar-19						
<i>Note: L-025-02/0 split between NEI; NINDS</i>										
+L-025-02/0	Becerra, Sofia P	(b)(4);	Chemicon International Inc	1-Mar-19						
+L-025-02/0	Chader, Gerald J	(b)(6)	Chemicon International Inc	1-Mar-19						
+L-025-02/0	Rodriguez, Ignacio R		Chemicon International Inc	1-Mar-19						
+L-025-02/0	Steele, Fintan R.		Chemicon International Inc	1-Mar-19						
+L-025-02/0	Tombran-Tink, Joyce		Chemicon International Inc	1-Mar-19						
+L-025-02/0	(b) (4)		Chemicon International Inc	1-Mar-19						
<i>Note: L-025-02/0 split between NEI; NINDS</i>										
+L-142-12/2	Csaky, Karl G		Odin Biotech, LLC	21-Mar-19						
+L-142-12/2	Ponce, Lourdes		Odin Biotech, LLC	21-Mar-19						
<i>Note: L-142-12/2 split between NEI; NIDCR</i>										
+L-025-02/0	NEI		Chemicon International Inc	22-Mar-19						
<i>Note: L-025-02/0 split between NEI; NINDS</i>										
+L-025-02/0	Becerra, Sofia P	(b)(4);	Chemicon International Inc	22-Mar-19						
+L-025-02/0	Chader, Gerald J	(b)(6)	Chemicon International Inc	22-Mar-19						
+L-025-02/0	Rodriguez, Ignacio R		Chemicon International Inc	22-Mar-19						
+L-025-02/0	Steele, Fintan R.		Chemicon International Inc	22-Mar-19						
+L-025-02/0	Tombran-Tink, Joyce		Chemicon International Inc	22-Mar-19						
+L-025-02/0	(b) (4)		Chemicon International Inc	22-Mar-19						
<i>Note: L-025-02/0 split between NEI; NINDS</i>										

\$3 641 416.19	\$799.68	\$3 642 215.87	\$608 174.83	\$3 034 041.04
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NHGRI
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
+L-151-16/1	Gahl, William A.	(b)(6)	Emergent BioSolutions	26-Sep-18						
+L-151-16/1	Tiftt, Cynthia J.		Emergent BioSolutions	26-Sep-18						
+L-151-16/1	Wolfe, Lynne A.		Emergent BioSolutions	26-Sep-18						
<i>Note: L-151-16/1 split between CC; NHGRI</i>										
+L-055-15/0	NHGRI		Lysosomal Therapeutics, Inc.	16-Oct-18						
<i>Note: L-055-15/0 split between NCATS; NHGRI</i>										

NIH Patent Licensing Activities
NHGRI
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-246-18/0	Manoli, Eirini	(b)(6)	Translate Bio, Inc	21-Nov-18						
+L-246-18/0	Venditti, Charles P.		Translate Bio, Inc	21-Nov-18						

NIH Patent Licensing Activities
NHGRI
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-186-16/0	Pavan, William J	(b)(6)	Galyatech LLC	4-Dec-18						
+L-186-16/0	Venditti, Charles P.		Galyatech LLC	4-Dec-18						
+L-055-15/1	Goldin, Ehud M.		Lysosomal Therapeutics, Inc.	6-Dec-18						
+L-055-15/1	Motabar, Omid		Lysosomal Therapeutics, Inc.	6-Dec-18						
+L-055-15/1	Sidransky, Ellen		Lysosomal Therapeutics, Inc.	6-Dec-18						
+L-055-15/1	Westbroek, Wendy		Lysosomal Therapeutics, Inc.	6-Dec-18						
<i>Note: L-055-15/1 split between NCATS; NHGRI</i>										
+L-134-15/0	NHGRI		Subrimed, Inc	10-Dec-18						
<i>Note: L-134-15/0 split between NCATS; NHGRI</i>										
+L-183-14/0	Gispert-Sanchez, Suzana	(b)(4);	UCSF	20-Dec-18						
+L-183-14/0	Nussbaum, Robert L.	(b)(6)	UCSF	20-Dec-18						
+L-134-15/0	(b) (4)		Subrimed, Inc	27-Dec-18						
<i>Note: L-134-15/0 split between NCATS; NHGRI</i>										

(b) (3) (A), (b) (4)

+L-134-15/0 NHGRI Subrimed, Inc 27-Dec-18
Note: L-134-15/0 split between NCATS; NHGRI

+L-134-15/0 NHGRI Subrimed, Inc 28-Dec-18
Note: L-134-15/0 split between NCATS; NHGRI

NIH Patent Licensing Activities
NHGRI
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-096-11/0	Kallioniemi, Olli P	(b)(4);	Integrated Systems Engineering SR	7-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-096-11/0	Kononen, Juha	(b)(6)	Integrated Systems Engineering SR	7-Jan-19						
+L-096-11/0	Leighton, Stephen		Integrated Systems Engineering SR	7-Jan-19						
+L-032-12/0	Auld, Douglas S.		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Boxer, Matthew		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Inglese, James		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Jiang, Jian-kang		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Shen, Min		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Skoumbourdis, Amanda P.		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Thomas, Craig J.		Agios Pharmaceuticals Inc	9-Jan-19						
<i>Note: L-032-12/0 split between NCATS; NHGRI</i>										
+L-032-12/0	Auld, Douglas S.		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Boxer, Matthew		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Inglese, James		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Jiang, Jian-kang		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Shen, Min		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Skoumbourdis, Amanda P.		Agios Pharmaceuticals Inc	9-Jan-19						
+L-032-12/0	Thomas, Craig J.		Agios Pharmaceuticals Inc	9-Jan-19						
<i>Note: L-032-12/0 split between NCATS; NHGRI</i>										
+L-228-18/0	Chandler, Randy J.		Translate Bio	14-Jan-19						
+L-228-18/0	Manoli, Eirini		Translate Bio	14-Jan-19						
+L-228-18/0	Venditti, Charles P.		Translate Bio	14-Jan-19						
+L-246-18/0	Chandler, Randy J.		Translate Bio, Inc	14-Jan-19						
+L-246-18/0	Manoli, Eirini		Translate Bio, Inc	14-Jan-19						
+L-246-18/0	Venditti, Charles P.		Translate Bio, Inc	14-Jan-19						
+L-229-18/0	Chandler, Randy J.		Translate Bio	14-Jan-19						
+L-229-18/0	Venditti, Charles P.		Translate Bio	14-Jan-19						
+L-244-17/0	Chandler, Randy J.		Logic Bio Therapeutics, Inc.	14-Jan-19						
+L-244-17/0	Venditti, Charles P.		Logic Bio Therapeutics, Inc.	14-Jan-19						
+L-110-18/0	Chandler, Randy J.		StrideBio	17-Jan-19						
+L-110-18/0	Pavan, William J		StrideBio	17-Jan-19						
+L-110-18/0	Venditti, Charles P.		StrideBio	17-Jan-19						

License	Inventor	Inventor Share %	Licensee	Date of Deposit	(b) (3) (A), (b) (4), (b) (6)
+L-216-18/0	Chandler, Randy J.	(b)(4);	StrideBio	17-Jan-19	
+L-216-18/0	Pavan, William J	(b)(6)	StrideBio	17-Jan-19	
+L-216-18/0	Venditti, Charles P.		StrideBio	17-Jan-19	
+L-243-17/0	Chandler, Randy J.		Logic Bio Therapeutics, Inc.	24-Jan-19	
+L-243-17/0	Venditti, Charles P.		Logic Bio Therapeutics, Inc.	24-Jan-19	
+L-153-17/0	Chandler, Randy J.		LogicBio Therapeutics, Inc.	24-Jan-19	
+L-153-17/0	Manoli, Irini		LogicBio Therapeutics, Inc.	24-Jan-19	
+L-153-17/0	Venditti, Charles P.		LogicBio Therapeutics, Inc.	24-Jan-19	
+L-246-18/0	Chandler, Randy J.		Translate Bio, Inc	28-Jan-19	
+L-246-18/0	Manoli, Eirini		Translate Bio, Inc	28-Jan-19	
+L-246-18/0	Venditti, Charles P.		Translate Bio, Inc	28-Jan-19	

NIH Patent Licensing Activities

NHGRI

February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
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NIH Patent Licensing Activities

NHGRI

March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-260-17/0	Sidransky, Ellen	(b)(4);	Shire Human Genetic Therapies, Inc.	14-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-260-17/0	Stubblefield, Barbara K.	(b)(6)	Shire Human Genetic Therapies, Inc.	14-Mar-19						
+L-116-13/0	NHGRI		EMD Millipore Corp.	22-Mar-19						

Note: L-116-13/0 split between NCATS; NHGRI

\$209,105.00	\$27,599.40	\$236,704.40	\$56,976.25	\$179,728.15
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NHLBI
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-170-15/0	NHLBI		BioMarin Pharmaceuticals, Inc.	21-Sep-18						(b) (3) (A), (b) (4), (b) (6)
+L-097-08/4	Knepper, Mark A	(b)(4); (b)(6)	ovus	26-Sep-18						
+L-214-18/0	Combs, Christian A. <i>Note: L-214-18/0 split between NHLBI; NIBIB</i>		okogawa Electric Corporation	4-Oct-18						
+L-214-18/0	Combs, Christian A. <i>Note: L-214-18/0 split between NHLBI; NIBIB</i>		okogawa Electric Corporation	4-Oct-18						
+L-248-14/0	NHLBI		Applied Genetic Technologies Corp	5-Oct-18						
+L-116-11/3	Chiorini, John A.	(b)(4);	uniQure B.V.	22-Oct-18						
+L-116-11/3	Kotin, Robert M.	(b)(6)	uniQure B.V.	22-Oct-18						
+L-116-11/3	(b) (4)		uniQure B.V.	22-Oct-18						
<i>Note: L-116-11/3 split between NHLBI; NIDCR</i>										

NIH Patent Licensing Activities
NHLBI
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-264-18/0	Arai, Andrew Ernest	(b)(4);	Corstem Inc.	5-Nov-18						(b) (3) (A), (b) (4), (b) (6)
+L-264-18/0	Hsu, Li - Yueh	(b)(6)	Corstem Inc.	5-Nov-18						
+L-264-18/0	Jacobs, Matthew James		Corstem Inc.	5-Nov-18						
+L-240-17/0	NHLBI <i>Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS</i>		United Therapeutics Corporation	13-Nov-18						
+L-300-17/1	Ding, Chuan-Tian	(b)(4);	LogicBio Therapeutics, Inc.	13-Nov-18						
+L-300-17/1	Kotin, Robert M.	(b)(6)	LogicBio Therapeutics, Inc.	13-Nov-18						
+L-300-17/1	Urabe, Masashi		LogicBio Therapeutics, Inc.	13-Nov-18						
+L-096-16/0	Finkel, Toren	(b)(4);	Genentech, Inc.	21-Nov-18						
+L-098-18/1	Cherkasova, Elena A.	(b)(6)	T-Cure Bioscience	23-Nov-18						
+L-098-18/1	Childs, Richard W.		T-Cure Bioscience	23-Nov-18						
+L-098-18/1	(b) (4)		T-Cure Bioscience	23-Nov-18						

NIH Patent Licensing Activities
NHLBI
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License	Inventor Awards December	Net Remaining to IC
								Cumulative Income		
+L-029-18/0	Ding, Chuan-Tian	(b)(4);	Abeona Therapeutics Inc.	1-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-029-18/0	Kotin, Robert M.	(b)(6)	Abeona Therapeutics Inc.	1-Dec-18						
+L-029-18/0	Urabe, Masashi		Abeona Therapeutics Inc.	1-Dec-18						
+L-181-17/0	NHLBI		Laboratorios del Dr. Esteve, S.A.U.	7-Dec-18						
+L-243-16/0	Boehm, Manfred	(b)(4);	StemCell Technologies Inc.	10-Dec-18						
+L-243-16/0	Chen, Guibin	(b)(6)	StemCell Technologies Inc.	10-Dec-18						
+L-243-16/0	Larochelle, Andre		StemCell Technologies Inc.	10-Dec-18						
<i>Note: L-243-16/0 split between NHLBI; NIAMS</i>										
+L-042-06/2	Aletras, Anthony Homer		Siemens AG, Med. Solutions	11-Dec-18						
+L-042-06/2	Kellman, Peter		Siemens AG, Med. Solutions	11-Dec-18						
+L-042-06/2	McVeigh, Elliott R		Siemens AG, Med. Solutions	11-Dec-18						
+L-042-06/2	Wen, Han		Siemens AG, Med. Solutions	11-Dec-18						
+L-234-18/0	Kotin, Robert M.		Generation Bio	11-Dec-18						
+L-234-18/0	Li, Lina		Generation Bio	11-Dec-18						
+L-159-07/2	Cannon, Richard O.		Hope Pharmaceuticals	11-Dec-18						
+L-159-07/2	Gladwin, Mark T.		Hope Pharmaceuticals	11-Dec-18						
+L-159-07/2	Hunter, Christian J		Hope Pharmaceuticals	11-Dec-18						
+L-159-07/2	(b) (4)		Hope Pharmaceuticals	11-Dec-18						
+L-159-07/2	(b) (4)		Hope Pharmaceuticals	11-Dec-18						
+L-159-07/2	(b) (4)		Hope Pharmaceuticals	11-Dec-18						
+L-159-07/2	(b) (4)		Hope Pharmaceuticals	11-Dec-18						
<i>Note: L-159-07/2 split between CC; NHLBI; NIDDK; NINDS</i>										
+L-143-07/2	Cannon, Richard O.	(b)(4);	Hope Pharmaceuticals	11-Dec-18						
<i>Note: L-143-07/2 split between CC; NHLBI; NIDDK</i>										
+L-107-07/3	Ding, Chuantian		UniQure B.V.	12-Dec-18						
+L-107-07/3	Kotin, Robert M.		UniQure B.V.	12-Dec-18						
+L-107-07/3	Urabe, Masashi		UniQure B.V.	12-Dec-18						
+L-116-11/3	Chiorini, John A.		uniQure B.V.	12-Dec-18						
+L-116-11/3	Kotin, Robert M.		uniQure B.V.	12-Dec-18						
+L-116-11/3	(b) (4)		uniQure B.V.	12-Dec-18						
<i>Note: L-116-11/3 split between NHLBI; NIDCR</i>										
+L-098-18/1	Cherkasova, Elena A.		T-Cure Bioscience	17-Dec-18						
+L-098-18/1	Childs, Richard W.		T-Cure Bioscience	17-Dec-18						
+L-098-18/1	(b) (4)		T-Cure Bioscience	17-Dec-18						
+L-015-12/1	Berra, Lorenzo		EndOclear LLC	17-Dec-18						
+L-015-12/1	Kolobow, Theodor		EndOclear LLC	17-Dec-18						
+L-186-18/0	Ding, Chuan-Tian		Casebia Therapeutics	18-Dec-18						
+L-186-18/0	Kotin, Robert M.		Casebia Therapeutics	18-Dec-18						
+L-186-18/0	Urabe, Masashi		Casebia Therapeutics	18-Dec-18						
+L-010-14/0	Cecchini, Sylvain		Life Technology Corp. (BAC BV)	18-Dec-18						

+L-010-14/0	Kotin, Robert M.	(b)(4);	Life Technology Corp. (BAC BV)	18-Dec-18
+L-010-14/0	Smith, Richard H.	(b)(6)	Life Technology Corp. (BAC BV)	18-Dec-18
+L-246-14/1	Nirenberg, (b) (6) Marshall		BIOLEGEND	18-Dec-18
+L-246-14/1	Walsh, Frank		BIOLEGEND	18-Dec-18
<i>Note: L-246-14/1 split between NHLBI; NIAID</i>				
+L-327-14/0	Ding, Chuantian		Voyager Therapeutics	19-Dec-18
+L-327-14/0	Kotin, Robert M.		Voyager Therapeutics	19-Dec-18
+L-327-14/0	Smith, Richard H.		Voyager Therapeutics	19-Dec-18
+L-327-14/0	Urabe, Masashi		Voyager Therapeutics	19-Dec-18
+L-063-15/0	Ding, Chuantian		BioMarin Pharma.	20-Dec-18
+L-063-15/0	Kotin, Robert M.		BioMarin Pharma.	20-Dec-18
+L-063-15/0	Urabe, Masashi		BioMarin Pharma.	20-Dec-18
+L-170-15/0	Chiorini, John A.		BioMarin Pharmaceuticals, Inc.	20-Dec-18
+L-170-15/0	Kotin, Robert M.		BioMarin Pharmaceuticals, Inc.	20-Dec-18
+L-124-17/0	Kotin, Robert M.		Torus Therapeutics, Inc.	20-Dec-18
+L-124-17/0	Li, Lina		Torus Therapeutics, Inc.	20-Dec-18
+L-042-06/2	Aletras, Anthony Homer		Siemens AG, Med. Solutions	21-Dec-18
+L-042-06/2	Kellman, Peter		Siemens AG, Med. Solutions	21-Dec-18
+L-042-06/2	McVeigh, Elliott R		Siemens AG, Med. Solutions	21-Dec-18
+L-042-06/2	Wen, Han		Siemens AG, Med. Solutions	21-Dec-18
+L-258-18/0	Derbyshire, John Andrew		: Siemens Healthcare GmbH	21-Dec-18
+L-258-18/0	(b) (4)		: Siemens Healthcare GmbH	21-Dec-18
+L-258-18/0	McVeigh, Elliott R		: Siemens Healthcare GmbH	21-Dec-18
+L-258-18/0	Nezafat, Reza		: Siemens Healthcare GmbH	21-Dec-18
+L-258-18/0	Derbyshire, John Andrew		: Siemens Healthcare GmbH	21-Dec-18
+L-258-18/0	(b) (4)		: Siemens Healthcare GmbH	21-Dec-18
+L-258-18/0	McVeigh, Elliott R		: Siemens Healthcare GmbH	21-Dec-18
+L-258-18/0	Nezafat, Reza		: Siemens Healthcare GmbH	21-Dec-18
+L-353-14/0	Chiorini, John A.		Takara Bio. Inc.	26-Dec-18
+L-353-14/0	Kotin, Robert M.		Takara Bio. Inc.	26-Dec-18
+L-158-17/0	Yang, Yanqin		Mokobio Life Science Group, Inc.	26-Dec-18
+L-158-17/0	Zhu, Jun		Mokobio Life Science Group, Inc.	26-Dec-18
<i>Note: L-158-17/0 split between NCI; NHLBI</i>				
+L-214-18/0	Combs, Christian A.		Yokogawa Electric Corporation	27-Dec-18
<i>Note: L-214-18/0 split between NHLBI; NIBIB</i>				
+L-214-18/0	Combs, Christian A.		Yokogawa Electric Corporation	27-Dec-18
<i>Note: L-214-18/0 split between NHLBI; NIBIB</i>				

(b) (3) (A), (b) (4), (b) (6)

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License	Inventor Awards January	Net Remaining to IC
								Cumulative Income		
+L-042-06/2	NHLBI		Siemens AG, Med. Solutions	1-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-029-12/0	Derbyshire, John Andrew	(b)(4);	Koninklijke Philips Electronics NV	1-Jan-19						
+L-029-12/0	(b) (4)	(b)(6)	Koninklijke Philips Electronics NV	1-Jan-19						
+L-029-12/0	McVeigh, Elliott R		Koninklijke Philips Electronics NV	1-Jan-19						
+L-029-12/0	Nezafat, Reza		Koninklijke Philips Electronics NV	1-Jan-19						
+L-125-12/0	Nirenberg, (b) (6) Marshall		BD Biosciences	3-Jan-19						
+L-125-12/0	Walsh, Frank		BD Biosciences	3-Jan-19						
<i>Note: L-125-12/0 split between NHLBI; NIAID</i>										
+L-014-18/0	Chiorini, John A.		Lacerta Therapeutics, Inc.	4-Jan-19						
+L-014-18/0	Kotin, Robert M.		Lacerta Therapeutics, Inc.	4-Jan-19						
+L-116-11/3	NHLBI		uniQure B.V.	9-Jan-19						
<i>Note: L-116-11/3 split between NHLBI; NIDCR</i>										
+L-275-18/0	Amar, Marcelo A.	(b)(4);	Hartis-Pharma Sarl	9-Jan-19						
+L-275-18/0	Brewer, H. Bryan	(b)(6)	Hartis-Pharma Sarl	9-Jan-19						
+L-275-18/0	Demosky, Stephen J.		Hartis-Pharma Sarl	9-Jan-19						
+L-275-18/0	Neufeld, Edward B.		Hartis-Pharma Sarl	9-Jan-19						
+L-275-18/0	Remaley, Alan T.		Hartis-Pharma Sarl	9-Jan-19						
+L-275-18/0	Stonik, John A.		Hartis-Pharma Sarl	9-Jan-19						
+L-275-18/0	Thomas, Fairwell		Hartis-Pharma Sarl	9-Jan-19						
+L-021-09/0	Chiorini, John A.		Arthrogen BV	11-Jan-19						
+L-021-09/0	Kotin, Robert M.		Arthrogen BV	11-Jan-19						
+L-072-18/0	Remaley, Alan T.		Corvidia Therapeutics	15-Jan-19						
+L-072-18/0	Sviridov, Denis O.		Corvidia Therapeutics	15-Jan-19						
+L-072-18/0	Wolska, Anna		Corvidia Therapeutics	15-Jan-19						
+L-199-18/0	Kotin, Robert M.		Solid Biosciences	16-Jan-19						
+L-199-18/0	Li, Lina		Solid Biosciences	16-Jan-19						
+L-199-18/0	Kotin, Robert M.		Solid Biosciences	24-Jan-19						
+L-199-18/0	Li, Lina		Solid Biosciences	24-Jan-19						
+L-097-08/4	Knepper, Mark A		Novus	25-Jan-19						
+L-159-07/2	NHLBI		Hope Pharmaceuticals	29-Jan-19						
<i>Note: L-159-07/2 split between CC; NHLBI; NIDDK; NINDS</i>										

NIH Patent Licensing Activities
NHLBI
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License	Inventor Awards February	Net Remaining to IC
								Cumulative Income		
+L-181-17/0	Ding, Chuan-Tian	(b)(4); (b)(6)	laboratorios del Dr. Esteve, S.A.U.	1-Feb-19						(b) (3) (A), (b) (4), (b) (6)

+L-181-17/0	Kotin, Robert M.	(b)(4);	Laboratorios del Dr. Esteve, S.A.U.	1-Feb-19	(b) (3) (A), (b) (4), (b) (6)	
+L-181-17/0	Urabe, Masashi	(b)(6)	Laboratorios del Dr. Esteve, S.A.U.	1-Feb-19		
+L-021-09/0	Chiorini, John A.		Arthrogen BV	1-Feb-19		
+L-021-09/0	Kotin, Robert M.		Arthrogen BV	1-Feb-19		
+L-011-13/0	Remaley, Alan T.		UNT Health Science Center	1-Feb-19		
+L-243-16/0	Boehm, Manfred		StemCell Technologies Inc.	5-Feb-19		
+L-243-16/0	Chen, Guibin		StemCell Technologies Inc.	5-Feb-19		
+L-243-16/0	Larochelle, Andre		StemCell Technologies Inc.	5-Feb-19		
<i>Note: L-243-16/0 split between NHLBI; NIAMS</i>						
+L-209-17/0	NHLBI		General Electric Co.	13-Feb-19		
+L-209-17/0	(b) (4)	(b)(4); (b)	eneral Electric Co.	13-Feb-19		
+L-209-17/0	Nezafat, Reza	(6)	eneral Electric Co.	13-Feb-19		
+L-015-12/1	Berra, Lorenzo		ndOclear LLC	14-Feb-19		
+L-015-12/1	Kolobow, Theodor		ndOclear LLC	14-Feb-19		
+L-105-17/0	Chiorini, John A.		enzyme Corporation	19-Feb-19		
+L-105-17/0	Kotin, Robert M.		enzyme Corporation	19-Feb-19		
+L-104-18/0	Ding, Chuan-Tian		akePharma	19-Feb-19		
+L-104-18/0	Kotin, Robert M.		akePharma	19-Feb-19		
+L-104-18/0	Urabe, Masashi		akePharma	19-Feb-19		
+L-228-96/2	Adelstein, Robert		ovance Research Products, Inc.	19-Feb-19		
+L-228-96/2	Kelley, Christine A		ovance Research Products, Inc.	19-Feb-19		
+L-243-16/0	NHLBI		StemCell Technologies Inc.	22-Feb-19		
<i>Note: L-243-16/0 split between NHLBI; NIAMS</i>						
+L-264-18/0	Arai, Andrew Ernest	(b)(4); (b)	Corstem Inc.	26-Feb-19		
+L-264-18/0	Hsu, Li - Yueh	(6)	Corstem Inc.	26-Feb-19		
+L-264-18/0	Jacobs, Matthew James		Corstem Inc.	26-Feb-19		

NIH Patent Licensing Activities

NHLBI

March 2019

License	Inventor	Inventor		Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
		Share %	Licensee							
+L-029-12/0	Derbyshire, John Andrew	(b)(4);	Koninklijke Philips Electronics NV	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-029-12/0	(b) (4)	(b)(6)	Koninklijke Philips Electronics NV	1-Mar-19						
+L-029-12/0	McVeigh, Elliott R		Koninklijke Philips Electronics NV	1-Mar-19						
+L-029-12/0	Nezafat, Reza		Koninklijke Philips Electronics NV	1-Mar-19						
+L-138-10/0	Adelstein, Robert		Millipore Corp	1-Mar-19						
+L-138-10/0	Kawamoto, Sachiyo		Millipore Corp	1-Mar-19						
+L-138-10/0	Kim, Kee Kwang		Millipore Corp	1-Mar-19						

+L-111-18/0	Knepper, Mark A	(b)(4); (b)(6)	KeraFAST	4-Mar-19
+L-105-12/0	Ding, Chuantian		Genethon	13-Mar-19
+L-105-12/0	Kotin, Robert M.		Genethon	13-Mar-19
+L-105-12/0	Urabe, Masashi		Genethon	13-Mar-19
+L-097-08/4	Knepper, Mark A		Novus	14-Mar-19
+L-248-14/0	Chiorini, John A.		Applied Genetic Technologies Corp	15-Mar-19
+L-248-14/0	Kotin, Robert M.		Applied Genetic Technologies Corp	15-Mar-19
+L-010-14/0	Cecchini, Sylvain		Life Technology Corp. (BAC BV)	21-Mar-19
+L-010-14/0	Kotin, Robert M.		Life Technology Corp. (BAC BV)	21-Mar-19
+L-010-14/0	Smith, Richard H.		Life Technology Corp. (BAC BV)	21-Mar-19
+L-259-02/0	Nirenberg, (b) (6) Marshall		R & D Systems, Inc.	28-Mar-19
+L-259-02/0	Walsh, Frank		R & D Systems, Inc.	28-Mar-19

Note: L-259-02/0 split between NHLBI; NIAID



(b) (3) (A), (b) (4), (b) (6)

+ denotes a manual adjustment which has already been paid to the inventor

\$776,567.38	\$62,439.69	\$839,007.07	\$380,107.33	\$458,899.74
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NIH Patent Licensing Activities
NIA
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
+L-014-89/2	Pitha, Josef	(b)(4); (b)(6)	Janssen Pharmaceutica Products, L.P.	4-Oct-18					(b) (3) (A), (b) (4), (b) (6)	

NIH Patent Licensing Activities
NIA
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-117-95/2	Hodes, Richard	(b)(4); (b)	Southern Biotechnology Associates, Inc.	16-Nov-18					(b) (3) (A), (b) (4), (b) (6)	

Note: L-117-95/2 split between NCI; NIA

NIH Patent Licensing Activities
NIA
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-166-16/0	Falco, Geppino	(b)(4); (b)(6)	Elixigen, LLC	18-Dec-18					(b) (3) (A), (b) (4), (b) (6)	
+L-166-16/0	Ko, Minoru S.		Elixigen, LLC	18-Dec-18						
+L-166-16/0	Lee, Sung-Lim		Elixigen, LLC	18-Dec-18						
+L-166-16/0	Monti, Manuela		Elixigen, LLC	18-Dec-18						
+L-166-16/0	Sharova, Lioudmila V.		Elixigen, LLC	18-Dec-18						
+L-166-16/0	Stanghellini, Ilaria		Elixigen, LLC	18-Dec-18						
+L-166-16/0	Zalzman, Michal		Elixigen, LLC	18-Dec-18						
+L-310-98/0	Pitha, Josef		Jurox Pty. Limited	21-Dec-18						

NIH Patent Licensing Activities
NIA
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-277-00/1	NIA		Amylin Pharma.	15-Jan-19					(b) (3) (A), (b) (4), (b) (6)	
+L-079-17/0	Matarin Jimenez, Maria Del Mar	(b)(4);	VuEssence, Inc.	16-Jan-19						
+L-079-17/0	Singleton, Andrew B.	(b)(6)	VuEssence, Inc.	16-Jan-19						

Note: L-079-17/0 split between NIA; NINDS; NINR

NIH Patent Licensing Activities
NIA
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-328-14/0	Doyle, Maire E	(b)(4);	Novo Nordisk A/S	20-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-328-14/0	Egan, Josephine M	(b)(6)	Novo Nordisk A/S	20-Feb-19						
+L-328-14/0	Greig, Nigel H		Novo Nordisk A/S	20-Feb-19						
+L-328-14/0	Holloway, Harold		Novo Nordisk A/S	20-Feb-19						
+L-328-14/0	Perry, Tracy Ann		Novo Nordisk A/S	20-Feb-19						
+L-310-98/0	Pitha, Josef		Jurox Pty. Limited	21-Feb-19						

NIH Patent Licensing Activities
NIA
March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-014-89/2	Pitha, Josef	(b)(4);	Janssen Pharmaceutica Products, L.P.	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-160-07/0	Shin, Soojung	(b)(6)	Invitrogen Corp.	4-Mar-19						
+L-102-13/0	Hodes, Richard J		EXBIO Praha	11-Mar-19						
<i>Note: L-102-13/0 split between NCI; NIA</i>										
+L-131-18/0	Bagrov, Alexei		CTS Biopharma	18-Mar-19						
+L-131-18/0	Fedorova, Olga V.		CTS Biopharma	18-Mar-19						
+L-131-18/0	Lakatta, Edward G.		CTS Biopharma	18-Mar-19						
					\$274,042.04	\$7,783.28	\$281,825.32		\$65,506.66	\$216,318.66

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIAAA
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
NIAAA
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-025-19/0	Cinar, Resat	(b)(4);	Corbus Pharmaceuticals Holdings, Inc.	2-Nov-18						(b) (3) (A), (b) (4), (b) (6)
+L-025-19/0	Coffey, Nathan Jackson	(b)(6)	Corbus Pharmaceuticals Holdings, Inc.	2-Nov-18						
+L-025-19/0	Iyer, Malliga R.		Corbus Pharmaceuticals Holdings, Inc.	2-Nov-18						
+L-162-16/3	Cinar, Resat		Inversago	5-Nov-18						
+L-162-16/3	Iyer, Malliga R.		Inversago	5-Nov-18						
+L-162-16/3	Kunos, George I		Inversago	5-Nov-18						
+L-162-16/3	Rice, Kenner C.		Inversago	5-Nov-18						

Note: L-162-16/3 split between NIAAA; NIDA

NIH Patent Licensing Activities
NIAAA
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
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NIH Patent Licensing Activities
NIAAA
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-276-17/0	Cinar, Resat	(b)(4);	Vital Spark Inc.	2-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-276-17/0	Iyer, Malliga R.	(b)(6)	Vital Spark Inc.	2-Jan-19						
+L-276-17/0	Kunos, George I		Vital Spark Inc.	2-Jan-19						
+L-276-17/0	Cinar, Resat		Vital Spark Inc.	2-Jan-19						
+L-276-17/0	Iyer, Malliga R.		Vital Spark Inc.	2-Jan-19						
+L-276-17/0	Kunos, George I		Vital Spark Inc.	2-Jan-19						
+L-276-17/0	Cinar, Resat		Vital Spark Inc.	3-Jan-19						
+L-276-17/0	Iyer, Malliga R.		Vital Spark Inc.	3-Jan-19						
+L-276-17/0	Kunos, George I		Vital Spark Inc.	3-Jan-19						

Note: L-276-17/0 split between NIAAA; NIDA

Note: L-276-17/0 split between NIAAA; NIDA

Note: L-276-17/0 split between NIAAA; NIDA

NIH Patent Licensing Activities
NIAAA
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-162-16/3	Cinar, Resat	(b)(4); (b)(6)	Inversago	1-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-162-16/3	Iyer, Malliga R.	(6)	Inversago	1-Feb-19						
+L-162-16/3	Kunos, George I		Inversago	1-Feb-19						

Note: L-162-16/3 split between NIAAA; NIDA

NIH Patent Licensing Activities
NIAAA
March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-276-17/0	NIAAA		Vital Spark Inc.	11-Mar-19						(b) (3) (A), (b) (4)

Note: L-276-17/0 split between NIAAA; NIDA

\$48,850.78	\$25,918.00	\$74,768.78	\$12,272.52	\$62,496.26
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 NIAID
 October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
+L-140-98/1	Beeler, Judy A.	(b)(4);	SmithKline Beecham	20-Sep-18						(b) (3) (A), (b) (4), (b) (6)
+L-140-98/1	Chanock, (b) (6) Robert	(b)(6)	SmithKline Beecham	20-Sep-18						
+L-140-98/1	Coelingh, Kathleen L.		SmithKline Beecham	20-Sep-18						
+L-140-98/1	Collins, Peter L.		SmithKline Beecham	20-Sep-18						
+L-140-98/1	Murphy, Brian R.		SmithKline Beecham	20-Sep-18						
+L-155-18/1	Baxa, Ulrich		Icosavax	25-Sep-18						
+L-155-18/1	Boyington, Jeffrey C.		Icosavax	25-Sep-18						
+L-155-18/1	Chen, Lei		Icosavax	25-Sep-18						
+L-155-18/1	Chen, Man		Icosavax	25-Sep-18						
+L-155-18/1	Chuang, Gwo-Yu		Icosavax	25-Sep-18						
+L-155-18/1	Druz, Aliaksandr A.		Icosavax	25-Sep-18						
+L-155-18/1	Galen, Joseph Van		Icosavax	25-Sep-18						
+L-155-18/1	Georgiev, Ivelin S.		Icosavax	25-Sep-18						
+L-155-18/1	Gorman, Jason		Icosavax	25-Sep-18						
+L-155-18/1	Graham, Barney S.		Icosavax	25-Sep-18						
+L-155-18/1	Joyce, Michael G.		Icosavax	25-Sep-18						
+L-155-18/1	Kanekiyo, Masaru		Icosavax	25-Sep-18						
+L-155-18/1	Kong, Wing-pui		Icosavax	25-Sep-18						
+L-155-18/1	Kwong, Peter D.		Icosavax	25-Sep-18						
+L-155-18/1	Mascola, John R.		Icosavax	25-Sep-18						
+L-155-18/1	McLellan, Jason Scott		Icosavax	25-Sep-18						
+L-155-18/1	OFEK, GILAD A		Icosavax	25-Sep-18						
+L-155-18/1	Ou, Li		Icosavax	25-Sep-18						
+L-155-18/1	Pancera, Marie L.		Icosavax	25-Sep-18						
+L-155-18/1	Rundlet, Emily		Icosavax	25-Sep-18						
+L-155-18/1	Sastry, Mallika		Icosavax	25-Sep-18						
+L-155-18/1	Soto, Cinque		Icosavax	25-Sep-18						
+L-155-18/1	Srivatsan, Sanjay R.		Icosavax	25-Sep-18						
+L-155-18/1	Stewart-Jones, Guillaume		Icosavax	25-Sep-18						
+L-155-18/1	Thomas, Paul V.		Icosavax	25-Sep-18						
+L-155-18/1	Tsybovsky, Yaroslav		Icosavax	25-Sep-18						
+L-155-18/1	YANG, YONGPING		Icosavax	25-Sep-18						
+L-155-18/1	Zhang, Baoshan		Icosavax	25-Sep-18						
+L-155-18/1	Zhou, Tongqing		Icosavax	25-Sep-18						
+L-144-14/1	NIAID		Novartis	25-Sep-18						
+L-021-10/1	Long, Eric O.	(b)(4);	EXBIO Praha	25-Sep-18						
+L-021-10/1	Rajagopalan, Sumati	(b)(6)	EXBIO Praha	25-Sep-18						
+L-101-85/0	Mackett, Michael		ZOETIS	26-Sep-18						
+L-101-85/0	Moss, Bernard		ZOETIS	26-Sep-18						
+L-101-85/0	Smith, Geoffrey L		ZOETIS	26-Sep-18						
+L-037-06/0	NIAID		Apath, LLC	2-Oct-18						
+L-262-18/0	Baxa, Ulrich	(b)(4);	Spybiotech Limited	5-Oct-18						
+L-262-18/0	Boyington, Jeffrey C.	(b)(6)	Spybiotech Limited	5-Oct-18						
+L-262-18/0	Chen, Lei		Spybiotech Limited	5-Oct-18						
+L-262-18/0	Chen, Man		Spybiotech Limited	5-Oct-18						
+L-262-18/0	Chuang, Gwo-Yu		Spybiotech Limited	5-Oct-18						

+L-262-18/0	Druz, Aliaksandr A.	(b)(4);	Spybiotech Limited	5-Oct-18
+L-262-18/0	Galen, Joseph Van	(b)(6)	Spybiotech Limited	5-Oct-18
+L-262-18/0	Georgiev, Ivelin S.		Spybiotech Limited	5-Oct-18
+L-262-18/0	Gorman, Jason		Spybiotech Limited	5-Oct-18
+L-262-18/0	Graham, Barney S.		Spybiotech Limited	5-Oct-18
+L-262-18/0	Joyce, Michael G.		Spybiotech Limited	5-Oct-18
+L-262-18/0	Kanekiyo, Masaru		Spybiotech Limited	5-Oct-18
+L-262-18/0	Kong, Wing-pui		Spybiotech Limited	5-Oct-18
+L-262-18/0	Kwong, Peter D.		Spybiotech Limited	5-Oct-18
+L-262-18/0	Mascola, John R.		Spybiotech Limited	5-Oct-18
+L-262-18/0	McLellan, Jason Scott		Spybiotech Limited	5-Oct-18
+L-262-18/0	OFEK, GILAD A		Spybiotech Limited	5-Oct-18
+L-262-18/0	Ou, Li		Spybiotech Limited	5-Oct-18
+L-262-18/0	Pancera, Marie L.		Spybiotech Limited	5-Oct-18
+L-262-18/0	Rundlet, Emily		Spybiotech Limited	5-Oct-18
+L-262-18/0	Sastry, Mallika		Spybiotech Limited	5-Oct-18
+L-262-18/0	Soto, Cinque		Spybiotech Limited	5-Oct-18
+L-262-18/0	Srivatsan, Sanjay R.		Spybiotech Limited	5-Oct-18
+L-262-18/0	Stewart-Jones, Guillaume		Spybiotech Limited	5-Oct-18
+L-262-18/0	Thomas, Paul V.		Spybiotech Limited	5-Oct-18
+L-262-18/0	Tsybovsky, Yaroslav		Spybiotech Limited	5-Oct-18
+L-262-18/0	YANG, YONGPING		Spybiotech Limited	5-Oct-18
+L-262-18/0	Zhang, Baoshan		Spybiotech Limited	5-Oct-18
+L-262-18/0	Zhou, Tongqing		Spybiotech Limited	5-Oct-18
+L-188-18/0	Cohen, Jeffrey		Indian Immunologicals Limited	9-Oct-18
+L-188-18/0	Pesnicak, Lesley M		Indian Immunologicals Limited	9-Oct-18
+L-188-18/0	Cohen, Jeffrey		Indian Immunologicals Limited	9-Oct-18
+L-188-18/0	Pesnicak, Lesley M		Indian Immunologicals Limited	9-Oct-18
+L-079-93/2	Ohara, Junichi		BD Biosciences - BD PharMingen	10-Oct-18
+L-079-93/2	Paul, (b)(6) William E.		BD Biosciences - BD PharMingen	10-Oct-18
+L-074-91/2	Harriman, Gregory R.		Becton Dickinson & Subsidiary PharMingen	10-Oct-18
+L-074-91/2	Kunimoto, Dennis Y.		Becton Dickinson & Subsidiary PharMingen	10-Oct-18
+L-074-91/2	Paul, (b)(6) William E.		Becton Dickinson & Subsidiary PharMingen	10-Oct-18
+L-074-91/2	Strober, Warren		Becton Dickinson & Subsidiary PharMingen	10-Oct-18
+L-068-04/2	Moss, Bernard		Jennerex, LLC	17-Oct-18
<i>Note: L-068-04/2 split between NCI; NIAID</i>				
+L-069-10/1	NIAID		Beijing Zhongyuan Ltd	21-Oct-18
+L-070-16/1	Akahata, Wataru	(b)(4);	PaxVax, Inc.	25-Oct-18
+L-070-16/1	Nabel, Gary J	(b)(6)	PaxVax, Inc.	25-Oct-18
+L-070-16/1	Rao, Srinivas		PaxVax, Inc.	25-Oct-18
+L-070-16/1	Sullivan, Nancy J		PaxVax, Inc.	25-Oct-18
+L-070-16/1	Yang, Zhi-Yong		PaxVax, Inc.	25-Oct-18
<i>Note: L-070-16/1 split between CDC; NIAID</i>				

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIAID
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Patent		Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Prosecution Costs				

+L-235-18/0	Caldwell, Harlan D	(b)(4);	PnuVax Inc.	7-Nov-18
+L-235-18/0	Kari, Laszlo	(b)(6)	PnuVax Inc.	7-Nov-18
+L-120-95/3	Shevach, Ethan M		Southern Biotechnology Associates, Inc.	16-Nov-18
+L-034-18/0	Leppla, Stephen H.		InBios International	20-Nov-18
+L-018-18/1	Datta, Sandip Kumar		Forte Biosciences Inc	20-Nov-18
+L-018-18/1	Myles, Ian		Forte Biosciences Inc	20-Nov-18
+L-126-15/1	NIAID		GlaxoSmithKline Biologicals, S.A.	21-Nov-18
<i>Note: L-126-15/1 split between CDC; NIAID</i>				
+L-268-18/0	Boyington, Jeffrey	(b)	ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Chen, Lei	(4);	ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Chen, Man	(b)(6)	ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Chuang, Gwo-Yu		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Georgiev, Ivelin S.		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Gorman, Jason		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Graham, Barney		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Joyce, Michael G.		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Kanekiyo, Masaru		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Kwong, Peter D.		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	McLellan, Jason Scott		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	OFEK, GILAD A		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Pancera, Marie L.		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Sastry, Mallika		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Soto, Cinque		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Srivatsan, Sanjay R.		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Stewart-Jones, Guillaume		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	YANG, YONGPING		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Zhang, Baoshan		ADMA Biologics, Inc	21-Nov-18
+L-268-18/0	Zhou, Tongqing		ADMA Biologics, Inc	21-Nov-18
+L-200-18/0	Chanock, (b) (6) Robert		Shandong Yidu Biotechnology Co., Ltd.	23-Nov-18
+L-200-18/0	Hoshino, Yasutaka		Shandong Yidu Biotechnology Co., Ltd.	23-Nov-18
+L-200-18/0	Kapikian, (b) (6) Albert Z		Shandong Yidu Biotechnology Co., Ltd.	23-Nov-18
+L-200-18/0	Chanock, (b) (6) Robert		Shandong Yidu Biotechnology Co., Ltd.	23-Nov-18
+L-200-18/0	Hoshino, Yasutaka		Shandong Yidu Biotechnology Co., Ltd.	23-Nov-18
+L-200-18/0	Kapikian, (b) (6) Albert Z		Shandong Yidu Biotechnology Co., Ltd.	23-Nov-18
+L-200-18/0	Chanock, (b) (6) Robert		Shandong Yidu Biotechnology Co., Ltd.	23-Nov-18
+L-200-18/0	Hoshino, Yasutaka		Shandong Yidu Biotechnology Co., Ltd.	23-Nov-18
+L-200-18/0	Kapikian, (b) (6) Albert Z		Shandong Yidu Biotechnology Co., Ltd.	23-Nov-18
+L-211-14/1	Biacchesi, Stephanie		ViraTree, LLC	23-Nov-18
+L-211-14/1	Buchholz, Ursula		ViraTree, LLC	23-Nov-18
+L-211-14/1	Bukreyev, Alexander		ViraTree, LLC	23-Nov-18
+L-211-14/1	Collins, Peter L.		ViraTree, LLC	23-Nov-18
+L-211-14/1	Luongo, Cindy L.		ViraTree, LLC	23-Nov-18
+L-211-14/1	Murphy, Brian R.		ViraTree, LLC	23-Nov-18
+L-211-14/1	Nutt, Anne S.		ViraTree, LLC	23-Nov-18
+L-211-14/1	(b) (4)		ViraTree, LLC	23-Nov-18
+L-211-14/1	Skiadopoulos, Mario		ViraTree, LLC	23-Nov-18
+L-211-14/1	(b) (4)		ViraTree, LLC	23-Nov-18
+L-202-15/0	Akin, Cem		Genentech Inc.	27-Nov-18
+L-202-15/0	Kirshenbaum, Arnold		Genentech Inc.	27-Nov-18

(b) (3) (A), (b) (4), (b) (6)

+L-202-15/0 Metcalfe, Dean D (b)(4); Genentech Inc.

27-Nov-18

NIH Patent Licensing Activities
NIAID
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-074-13/0	Sun, Peter D	(b)(4);	Therapyx Inc	1-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-074-13/0	Zou, Zhongcheng	(b)(6)	Therapyx Inc	1-Dec-18						
+L-275-14/0	NIAID		CSL Behring (Australia)	1-Dec-18						
+L-275-14/0	Emerson, Suzanne U.		CSL Behring (Australia)	1-Dec-18						
+L-275-14/0	Nguyen, Hanh T.		CSL Behring (Australia)	1-Dec-18						
+L-275-14/0	Purcell, Robert H		CSL Behring (Australia)	1-Dec-18						
+L-275-14/0	(b) (4)		CSL Behring (Australia)	1-Dec-18						
+L-275-14/0	Shukla Bajpai, Priyanka		CSL Behring (Australia)	1-Dec-18						
+L-028-19/0	Graham, Barney S.		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	(b) (4)		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	(b) (4)		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Ledgerwood, Julie		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Mulang, Sabue		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Muyembe-Tamfun, Jean-Jacques		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Stanley, Daphne Amanda		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Sullivan, Nancy J		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Graham, Barney S.		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	(b) (4)		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	(b) (4)		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Ledgerwood, Julie		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Mulang, Sabue		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Muyembe-Tamfun, Jean-Jacques		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Stanley, Daphne Amanda		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Sullivan, Nancy J		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	NIAID		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Graham, Barney S.		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	(b) (4)		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	(b) (4)		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Ledgerwood, Julie		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Mulang, Sabue		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Muyembe-Tamfun, Jean-Jacques		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Stanley, Daphne Amanda		Ridgeback Biotherapeutics	4-Dec-18						
+L-028-19/0	Sullivan, Nancy J		Ridgeback Biotherapeutics	4-Dec-18						
+L-152-02/3	Hsu, Su-Cheng Dana		Emergent BioDefense	4-Dec-18						
+L-152-02/3	Leppla, Stephen H.		Emergent BioDefense	4-Dec-18						
+L-152-02/3	Pomerantsev, Andrei P		Emergent BioDefense	4-Dec-18						
<i>Note: L-152-02/3 split between NIAID; NIDCR</i>										
+L-126-11/0	Cheung, Yiu Chong Gordon		Emergent Biodefense	4-Dec-18						
+L-126-11/0	Gupta, Pradeep K.		Emergent Biodefense	4-Dec-18						
+L-126-11/0	Hu, Haijing		Emergent Biodefense	4-Dec-18						
+L-126-11/0	Leppla, Stephen H.		Emergent Biodefense	4-Dec-18						

+L-126-11/0	Moayeri, Mahtab	(b)(4);	Emergent Biodefense	4-Dec-18
+L-126-11/0	Pomerantsev, Andrei P	(b)(6)	Emergent Biodefense	4-Dec-18
+L-247-15/0	Atarashi, Ryuichiro		Amprion, Inc.	4-Dec-18
+L-247-15/0	Caughey, Byron W.		Amprion, Inc.	4-Dec-18
+L-247-15/0	Moore, Roger A.		Amprion, Inc.	4-Dec-18
+L-247-15/0	Priola, Susette A.		Amprion, Inc.	4-Dec-18
+L-037-06/0	Bukh, Jens		Apath, LLC	5-Dec-18
+L-037-06/0	Emerson, Suzanne U.		Apath, LLC	5-Dec-18
+L-037-06/0	Purcell, Robert H		Apath, LLC	5-Dec-18
+L-037-06/0	Yanagi, Masayuki		Apath, LLC	5-Dec-18
+L-040-13/0	Emerson, Suzanne U.		Baxter Akiengesellschaft Industr	10-Dec-18
+L-040-13/0	Nguyen, Hanh T.		Baxter Akiengesellschaft Industr	10-Dec-18
+L-040-13/0	Purcell, Robert H		Baxter Akiengesellschaft Industr	10-Dec-18
+L-040-13/0	(b) (4)		Baxter Akiengesellschaft Industr	10-Dec-18
+L-040-13/0	Shukla Bajpai, Priyanka		Baxter Akiengesellschaft Industr	10-Dec-18
+L-118-09/2	Chanock, (b) (6) Robert		Sinovac Biotech, Ltd.	11-Dec-18
+L-118-09/2	Hoshino, Yasutaka		Sinovac Biotech, Ltd.	11-Dec-18
+L-118-09/2	Kapikian, (b) (6) Albert Z		Sinovac Biotech, Ltd.	11-Dec-18
+L-122-08/0	Mackett, Michael		Vaccinex Inc	11-Dec-18
+L-122-08/0	Moss, Bernard		Vaccinex Inc	11-Dec-18
+L-122-08/0	Smith, Geoffrey L		Vaccinex Inc	11-Dec-18
+L-221-16/0	Bermingham, Alison		Sanofi Pasteur	11-Dec-18
+L-221-16/0	Buchholz, Ursula		Sanofi Pasteur	11-Dec-18
+L-221-16/0	Collins, Peter L.		Sanofi Pasteur	11-Dec-18
+L-221-16/0	Graham, Barney S.		Sanofi Pasteur	11-Dec-18
+L-221-16/0	Kwong, Peter D.		Sanofi Pasteur	11-Dec-18
+L-221-16/0	Liang, Bo		Sanofi Pasteur	11-Dec-18
+L-221-16/0	Luongo, Cindy L.		Sanofi Pasteur	11-Dec-18
+L-221-16/0	McCarty, Thomas Charles		Sanofi Pasteur	11-Dec-18
+L-221-16/0	McLellan, Jason Scott		Sanofi Pasteur	11-Dec-18
+L-221-16/0	Munir, Shirin		Sanofi Pasteur	11-Dec-18
+L-221-16/0	Murphy, Brian R.		Sanofi Pasteur	11-Dec-18
+L-221-16/0	Nutt, Anne S.		Sanofi Pasteur	11-Dec-18
+L-024-19/0	Akin, Cem		Kyowa Kirin Pharmaceutical Research, Inc	12-Dec-18
+L-024-19/0	Kirshenbaum, Arnold		Kyowa Kirin Pharmaceutical Research, Inc	12-Dec-18
+L-024-19/0	Metcalfe, Dean D		Kyowa Kirin Pharmaceutical Research, Inc	12-Dec-18
+L-024-19/0	Akin, Cem		Kyowa Kirin Pharmaceutical Research, Inc	12-Dec-18
+L-024-19/0	Kirshenbaum, Arnold		Kyowa Kirin Pharmaceutical Research, Inc	12-Dec-18
+L-024-19/0	Metcalfe, Dean D		Kyowa Kirin Pharmaceutical Research, Inc	12-Dec-18
+L-009-06/0	Collins, Peter L.		Apath, LLC	13-Dec-18
+L-135-17/2	Boyington, Jeffrey C.		Emergent Product Development	14-Dec-18
+L-135-17/2	Corbett, Kizzmekia		Emergent Product Development	14-Dec-18
+L-135-17/2	Graham, Barney S.		Emergent Product Development	14-Dec-18
+L-135-17/2	Kanekiyo, Masaru		Emergent Product Development	14-Dec-18
+L-135-17/2	Kong, Wing-pui		Emergent Product Development	14-Dec-18
+L-135-17/2	Kwong, Peter D.		Emergent Product Development	14-Dec-18
+L-135-17/2	Mascola, John R.		Emergent Product Development	14-Dec-18
+L-135-17/2	McTamney, Patrick		Emergent Product Development	14-Dec-18
+L-135-17/2	Moin, Syed M.		Emergent Product Development	14-Dec-18

(b) (3) (A), (b) (4), (b) (6)

+L-135-17/2	Nabel, Gary J	(b)(4);	Emergent Product Development	14-Dec-18
+L-135-17/2	Sullivan, Nancy J	(b)(6)	Emergent Product Development	14-Dec-18
+L-135-17/2	Wang, Lingshu		Emergent Product Development	14-Dec-18
+L-135-17/2	Wei, Chih-Jen		Emergent Product Development	14-Dec-18
+L-135-17/2	Whittle, James R R		Emergent Product Development	14-Dec-18
+L-135-17/2	Yang, Zhi-Yong		Emergent Product Development	14-Dec-18
+L-135-17/2	Yassine, Hadi M.		Emergent Product Development	14-Dec-18
<i>Note: L-135-17/2 split between CDC; NIAID</i>				
+L-116-18/0	Emerson, Suzanne U.		Katholieke	14-Dec-18
+L-116-18/0	Nguyen, Hanh T.		Katholieke	14-Dec-18
+L-116-18/0	Purcell, Robert H		Katholieke	14-Dec-18
+L-116-18/0	(b) (4)		Katholieke	14-Dec-18
+L-116-18/0	Shukla Bajpai, Priyanka		Katholieke	14-Dec-18
+L-073-18/0	Guatam, Rejeev		Gilead Sciences, Inc.	18-Dec-18
+L-073-18/0	Martin, Malcolm A		Gilead Sciences, Inc.	18-Dec-18
+L-073-18/0	Nishimura, Michael		Gilead Sciences, Inc.	18-Dec-18
+L-073-18/0	Sadjadpour, Reza		Gilead Sciences, Inc.	18-Dec-18
+L-073-18/0	Shingai, Masashi		Gilead Sciences, Inc.	18-Dec-18
+L-069-10/1	Chanock, (b) (6) Robert		Beijing Zhongyuan Ltd	18-Dec-18
+L-069-10/1	Hoshino, Yasutaka		Beijing Zhongyuan Ltd	18-Dec-18
+L-069-10/1	Kapikian, (b) (6) Albert Z		Beijing Zhongyuan Ltd	18-Dec-18
+L-049-00/1	Shevach, Ethan M		eBioscience, Inc..	18-Dec-18
<i>Note: L-049-00/1 split between NCI; NIAID</i>				
+L-005-03/1	Ohara, Junichi		BioLegend Inc	18-Dec-18
+L-005-03/1	Paul, (b) (6) William E.		BioLegend Inc	18-Dec-18
+L-162-08/1	Sun, Peter D		BioLegend	18-Dec-18
+L-162-08/1	Zou, Zhongcheng		BioLegend	18-Dec-18
<i>Note: L-162-08/1 split between NCI; NIAID</i>				
+L-072-09/1	Long, Eric O.		BioLegend	18-Dec-18
+L-072-09/1	Rajagopalan, Sumati		BioLegend	18-Dec-18
+L-003-11/0	Germain, Ronald N.		BioLegend	18-Dec-18
+L-003-11/0	Porgador, Angel		BioLegend	18-Dec-18
+L-071-10/0	DeVico, Angela M.		BioLegend	18-Dec-18
+L-071-10/0	Korty, Patricia E.		BioLegend	18-Dec-18
+L-071-10/0	Shevach, Ethan M		BioLegend	18-Dec-18
+L-069-14/0	Mchugh, Rebecca S		BioLegend	18-Dec-18
+L-069-14/0	Shevach, Ethan M		BioLegend	18-Dec-18
+L-069-14/0	Stephens, Geoffrey L.		BioLegend	18-Dec-18
+L-246-14/1	Eisenbarth, (b) (6) George		BIOLEGEND	18-Dec-18
<i>Note: L-246-14/1 split between NHLBI; NIAID</i>				
+L-110-17/0	Shevach, Ethan M		BioLegend Inc.	18-Dec-18
+L-011-08/2	Shevach, Ethan M		BioLegend	18-Dec-18
+L-257-14/1	Chen, Man		CureVac	19-Dec-18
+L-257-14/1	Graham, Barney S.		CureVac	19-Dec-18
+L-257-14/1	Kwong, Peter D.		CureVac	19-Dec-18

+L-257-14/1	McLellan, Jason Scott	(b)(4); (b)(6)	CureVac	19-Dec-18
+L-153-00/1	Ohara, Junichi		eBioscience	19-Dec-18
+L-153-00/1	Paul, (b) (6) William E.		eBioscience	19-Dec-18
+L-094-10/0	DeVico, Angela M.		eBioscience	19-Dec-18
+L-094-10/0	Korty, Patricia E.		eBioscience	19-Dec-18
+L-094-10/0	Shevach, Ethan M		eBioscience	19-Dec-18
+L-070-16/1	Akahata, Wataru		PaxVax, Inc.	19-Dec-18
+L-070-16/1	Nabel, Gary J		PaxVax, Inc.	19-Dec-18
+L-070-16/1	Rao, Srinivas		PaxVax, Inc.	19-Dec-18
+L-070-16/1	Sullivan, Nancy J		PaxVax, Inc.	19-Dec-18
+L-070-16/1	Yang, Zhi-Yong		PaxVax, Inc.	19-Dec-18
<i>Note: L-070-16/1 split between CDC; NIAID</i>				
+L-054-06/0	Germain, Ronald N.		eBioscience	19-Dec-18
+L-054-06/0	Porgador, Angel		eBioscience	19-Dec-18
+L-226-14/0	Nutman, Thomas B.		Focus Diagnostics, Inc.	20-Dec-18
+L-001-15/2	NIAID		Merck Sharp & Dohme, Corp.	20-Dec-18
<i>Note: L-001-15/2 split between FDA; NIAID</i>				
+L-001-15/2	NIAID		Merck Sharp & Dohme, Corp.	20-Dec-18
<i>Note: L-001-15/2 split between FDA; NIAID</i>				
+L-188-18/0	Cohen, Jeffrey		Indian Immunologicals Limited	20-Dec-18
+L-188-18/0	Pesnicak, Lesley M		Indian Immunologicals Limited	20-Dec-18
+L-217-16/0	Blaney, Jr., Joseph E		Indian Immunologicals Ltd	20-Dec-18
+L-217-16/0	Hanley, Kathryn		Indian Immunologicals Ltd	20-Dec-18
+L-217-16/0	Lai, Ching-Juh		Indian Immunologicals Ltd	20-Dec-18
+L-217-16/0	Murphy, Brian R.		Indian Immunologicals Ltd	20-Dec-18
+L-217-16/0	Whitehead, Stephen S.		Indian Immunologicals Ltd	20-Dec-18
<i>Note: L-217-16/0 split between FDA; NIAID</i>				
+L-165-13/1	NIAID		Jennerex Inc	21-Dec-18
+L-165-13/1	Mackett, Michael		Jennerex Inc	21-Dec-18
+L-165-13/1	Moss, Bernard		Jennerex Inc	21-Dec-18
+L-165-13/1	Smith, Geoffrey L		Jennerex Inc	21-Dec-18
+L-046-17/1	Blaney, Jr., Joseph E		Medigen Vaccine Biologics Corp	26-Dec-18
+L-046-17/1	Hanley, Kathryn		Medigen Vaccine Biologics Corp	26-Dec-18
+L-046-17/1	Lai, Ching-Juh		Medigen Vaccine Biologics Corp	26-Dec-18
+L-046-17/1	Murphy, Brian R.		Medigen Vaccine Biologics Corp	26-Dec-18
+L-046-17/1	Whitehead, Stephen S.		Medigen Vaccine Biologics Corp	26-Dec-18
<i>Note: L-046-17/1 split between FDA; NIAID</i>				
+L-046-17/1	Blaney, Jr., Joseph E		Medigen Vaccine Biologics Corp	26-Dec-18
+L-046-17/1	Hanley, Kathryn		Medigen Vaccine Biologics Corp	26-Dec-18
+L-046-17/1	Lai, Ching-Juh		Medigen Vaccine Biologics Corp	26-Dec-18
+L-046-17/1	Murphy, Brian R.		Medigen Vaccine Biologics Corp	26-Dec-18
+L-046-17/1	Whitehead, Stephen S.		Medigen Vaccine Biologics Corp	26-Dec-18
<i>Note: L-046-17/1 split between FDA; NIAID</i>				
+L-155-18/1	Baxa, Ulrich		Icosavax	27-Dec-18
+L-155-18/1	Boyington, Jeffrey C.		Icosavax	27-Dec-18

(b) (3) (A), (b) (4), (b) (6)

+L-155-18/1	Chen, Lei	(b)(4);	Icosavax	27-Dec-18
+L-155-18/1	Chen, Man	(b)(6)	Icosavax	27-Dec-18
+L-155-18/1	Chuang, Gwo-Yu		Icosavax	27-Dec-18
+L-155-18/1	Druz, Aliaksandr A.		Icosavax	27-Dec-18
+L-155-18/1	Galen, Joseph Van		Icosavax	27-Dec-18
+L-155-18/1	Georgiev, Ivelin S.		Icosavax	27-Dec-18
+L-155-18/1	Gorman, Jason		Icosavax	27-Dec-18
+L-155-18/1	Graham, Barney S.		Icosavax	27-Dec-18
+L-155-18/1	Joyce, Michael G.		Icosavax	27-Dec-18
+L-155-18/1	Kanekiyo, Masaru		Icosavax	27-Dec-18
+L-155-18/1	Kong, Wing-pui		Icosavax	27-Dec-18
+L-155-18/1	Kwong, Peter D.		Icosavax	27-Dec-18
+L-155-18/1	Mascola, John R.		Icosavax	27-Dec-18
+L-155-18/1	McLellan, Jason Scott		Icosavax	27-Dec-18
+L-155-18/1	OFEK, GILAD A		Icosavax	27-Dec-18
+L-155-18/1	Ou, Li		Icosavax	27-Dec-18
+L-155-18/1	Pancera, Marie L.		Icosavax	27-Dec-18
+L-155-18/1	Rundlet, Emily		Icosavax	27-Dec-18
+L-155-18/1	Sastry, Mallika		Icosavax	27-Dec-18
+L-155-18/1	Soto, Cinque		Icosavax	27-Dec-18
+L-155-18/1	Srivatsan, Sanjay R.		Icosavax	27-Dec-18
+L-155-18/1	Stewart-Jones, Guillaume		Icosavax	27-Dec-18
+L-155-18/1	Thomas, Paul V.		Icosavax	27-Dec-18
+L-155-18/1	Tsybovsky, Yaroslav		Icosavax	27-Dec-18
+L-155-18/1	YANG, YONGPING		Icosavax	27-Dec-18
+L-155-18/1	Zhang, Baoshan		Icosavax	27-Dec-18
+L-155-18/1	Zhou, Tongqing		Icosavax	27-Dec-18
+L-035-18/0	DeVico, Angela M.		Celgene Corporation	28-Dec-18
+L-035-18/0	Shevach, Ethan M		Celgene Corporation	28-Dec-18
+L-247-15/0	NIAID		Amprion, Inc.	28-Dec-18

NIH Patent Licensing Activities

NIAID

January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-200-05/6	Chanock, (b) (6) Robert	(b)(4);	Wuhan Institute of Bio. Prod.	1-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-200-05/6	Hoshino, Yasutaka	(b)(6)	Wuhan Institute of Bio. Prod.	1-Jan-19						
+L-200-05/6	Kapikian, (b) (6) Albert Z		Wuhan Institute of Bio. Prod.	1-Jan-19						
+L-197-05/5	Chanock, (b) (6) Robert		Serum Institute of India	1-Jan-19						
+L-197-05/5	Hoshino, Yasutaka		Serum Institute of India	1-Jan-19						
+L-197-05/5	Kapikian, (b) (6) Albert Z		Serum Institute of India	1-Jan-19						
+L-035-13/0	Blaney, Jr., Joseph E		GlaxoSmithKline	1-Jan-19						
+L-035-13/0	Bray, Michael		GlaxoSmithKline	1-Jan-19						
+L-035-13/0	Chanock, (b) (6) Robert		GlaxoSmithKline	1-Jan-19						
+L-035-13/0	Eckels, Kenneth H		GlaxoSmithKline	1-Jan-19						
+L-035-13/0	Hanley, Kathryn		GlaxoSmithKline	1-Jan-19						
+L-035-13/0	Lai, Ching-Juh		GlaxoSmithKline	1-Jan-19						
+L-035-13/0	Men, Ruhe		GlaxoSmithKline	1-Jan-19						
+L-035-13/0	Murphy, Brian R.		GlaxoSmithKline	1-Jan-19						
+L-035-13/0	Pletnev, Alexander G		GlaxoSmithKline	1-Jan-19						
+L-035-13/0	Whitehead, Stephen S.		GlaxoSmithKline	1-Jan-19						

+L-035-13/0 Zhang, Yi-Ming
Note: L-035-13/0 split between FDA; NIAID

+L-149-15/1 Blaney, Jr., Joseph E
+L-149-15/1 Hanley, Kathryn
+L-149-15/1 Lai, Ching-Juh
+L-149-15/1 Murphy, Brian R.
+L-149-15/1 Whitehead, Stephen S.
Note: L-149-15/1 split between FDA; NIAID

+L-036-06/0 Blaney, Jr., Joseph E
+L-036-06/0 Chanock, (b) (6) Robert
+L-036-06/0 Murphy, Brian R.
+L-036-06/0 Pletnev, Alexander G
+L-036-06/0 Putnak, J. Robert
+L-036-06/0 Whitehead, Stephen S.

+L-190-05/2 Bennink, Jack R.
+L-190-05/2 Broder, Christopher
+L-190-05/2 Chesebro, Bruce
+L-190-05/2 Cox, Josephine H
+L-190-05/2 Doms, Robert W.
+L-190-05/2 Earl, Patricia L.
+L-190-05/2 Moss, Bernard
+L-190-05/2 Wehrly, Kathryn
+L-190-05/2 Yewdell, Jonathan W.
Note: L-190-05/2 split between NCI; NIAID

+L-079-93/2 Ohara, Junichi
+L-079-93/2 Paul, (b) (6) William E.

+L-074-91/2 Harriman, Gregory R.
+L-074-91/2 Kunimoto, Dennis Y.
+L-074-91/2 Paul, (b) (6) William E.
+L-074-91/2 Strober, Warren

+L-125-12/0 Eisenbarth, (b) (6) George
Note: L-125-12/0 split between NHLBI; NIAID

+L-200-18/0 NIAID

+L-068-16/0 Cheng, Cheng
+L-068-16/0 Merritt, Joshua S.
+L-068-16/0 Schwartz, Richard M.

+L-118-11/1 Alexander, Robert M.
+L-118-11/1 Jenkins, John P.
+L-118-11/1 Koh, Franklin
+L-118-11/1 O'Brien, Daniel P.
+L-118-11/1 Quasney, Judit A.

+L-253-15/0 Chanock, (b) (6) Robert
+L-253-15/0 Hoshino, Yasutaka
+L-253-15/0 Kapikian, (b) (6) Albert Z

+L-266-16/1 Akin, Cem
+L-266-16/1 Kirshenbaum, Arnold
+L-266-16/1 Metcalfe, Dean D

(b)(4);
(b)(6) GlaxoSmithKline 1-Jan-19

Serum Institute of India Ltd. 1-Jan-19
Serum Institute of India Ltd. 1-Jan-19
Serum Institute of India Ltd. 1-Jan-19
Serum Institute of India Ltd. 1-Jan-19
Serum Institute of India Ltd. 1-Jan-19

Hawaii Biotechnology Group, Inc. 2-Jan-19
Hawaii Biotechnology Group, Inc. 2-Jan-19
Hawaii Biotechnology Group, Inc. 2-Jan-19
Hawaii Biotechnology Group, Inc. 2-Jan-19
Hawaii Biotechnology Group, Inc. 2-Jan-19
Hawaii Biotechnology Group, Inc. 2-Jan-19

GeoVax, Inc. 2-Jan-19
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GeoVax, Inc. 2-Jan-19
GeoVax, Inc. 2-Jan-19

BD Biosciences - BD PharMingen 3-Jan-19
BD Biosciences - BD PharMingen 3-Jan-19

Becton Dickinson & Subsidiary PharMingen 3-Jan-19
Becton Dickinson & Subsidiary PharMingen 3-Jan-19
Becton Dickinson & Subsidiary PharMingen 3-Jan-19
Becton Dickinson & Subsidiary PharMingen 3-Jan-19

BD Biosciences 3-Jan-19

Shandong Yidu Biotechnology Co., Ltd. 3-Jan-19

PaxVax Inc. 3-Jan-19
PaxVax Inc. 3-Jan-19
PaxVax Inc. 3-Jan-19

Transwall 4-Jan-19
Transwall 4-Jan-19
Transwall 4-Jan-19
Transwall 4-Jan-19
Transwall 4-Jan-19

Sun Biotech Pte., Ltd. 4-Jan-19
Sun Biotech Pte., Ltd. 4-Jan-19
Sun Biotech Pte., Ltd. 4-Jan-19

Glenmark Pharmaceuticals, S.A. 8-Jan-19
Glenmark Pharmaceuticals, S.A. 8-Jan-19
Glenmark Pharmaceuticals, S.A. 8-Jan-19

(b) (3) (A), (b) (4), (b) (6)

+L-170-98/2	Conrad, John T.	(b)(4);	R-Biopharm GmbH	9-Jan-19
+L-170-98/2	Lujan, Hugo D	(b)(6)	R-Biopharm GmbH	9-Jan-19
+L-170-98/2	Mowatt, Michael		R-Biopharm GmbH	9-Jan-19
+L-170-98/2	Nash, Theodore		R-Biopharm GmbH	9-Jan-19
+L-170-98/2	Conrad, John T.		R-Biopharm GmbH	9-Jan-19
+L-170-98/2	Lujan, Hugo D		R-Biopharm GmbH	9-Jan-19
+L-170-98/2	Mowatt, Michael		R-Biopharm GmbH	9-Jan-19
+L-170-98/2	Nash, Theodore		R-Biopharm GmbH	9-Jan-19
+L-120-95/3	Shevach, Ethan M		Southern Biotechnology Associates, Inc.	9-Jan-19
+L-207-13/2	Cheng, Cheng		Hookipa Biotech AG	9-Jan-19
+L-207-13/2	Mangalampalli, Venkata R.		Hookipa Biotech AG	9-Jan-19
+L-207-13/2	Merritt, Joshua S.		Hookipa Biotech AG	9-Jan-19
+L-207-13/2	Schwartz, Richard M.		Hookipa Biotech AG	9-Jan-19
+L-207-13/2	Wycuff, Diane L.		Hookipa Biotech AG	9-Jan-19
+L-208-14/1	Emerson, Suzanne U.		Grifols Therapeutics, Inc.	10-Jan-19
+L-208-14/1	Nguyen, Hanh T.		Grifols Therapeutics, Inc.	10-Jan-19
+L-208-14/1	Purcell, Robert H		Grifols Therapeutics, Inc.	10-Jan-19
+L-208-14/1	(b) (4)		Grifols Therapeutics, Inc.	10-Jan-19
+L-208-14/1	Shukla Bajpai, Priyanka		Grifols Therapeutics, Inc.	10-Jan-19
+L-031-09/1	Britt, William J.		Tocagen Inc	10-Jan-19
+L-031-09/1	Chesebro, Bruce		Tocagen Inc	10-Jan-19
+L-031-09/1	Evans, Leonard		Tocagen Inc	10-Jan-19
+L-031-09/1	Miyazawa, Masaaki		Tocagen Inc	10-Jan-19
+L-031-09/1	Robertson, Michael N.		Tocagen Inc	10-Jan-19
+L-031-09/1	Wehrly, Kathryn		Tocagen Inc	10-Jan-19
+L-107-17/0	Akin, Cem		Kangstem Biotech Co., Ltd.	10-Jan-19
+L-107-17/0	Kirshenbaum, Arnold		Kangstem Biotech Co., Ltd.	10-Jan-19
+L-107-17/0	Metcalfe, Dean D		Kangstem Biotech Co., Ltd.	10-Jan-19
+L-241-13/0	Shevach, Ethan M		Tonbo Biotechnologies Corp	15-Jan-19
+L-028-11/1	Akin, Cem		Amgen	15-Jan-19
+L-028-11/1	Kirshenbaum, Arnold		Amgen	15-Jan-19
+L-028-11/1	Metcalfe, Dean D		Amgen	15-Jan-19
+L-061-13/0	Chen, Zhao Chun		BioFactura, Inc.	16-Jan-19
+L-061-13/0	Emerson, Suzanne U.		BioFactura, Inc.	16-Jan-19
+L-061-13/0	Moss, Bernard		BioFactura, Inc.	16-Jan-19
+L-061-13/0	Purcell, Robert H		BioFactura, Inc.	16-Jan-19
+L-012-07/2	Eisenbarth, (b) (6) George		Santa Cruz Biotechnology Inc	16-Jan-19
+L-012-07/2	Fauci, Anthony		Santa Cruz Biotechnology Inc	16-Jan-19
+L-012-07/2	Haynes, Barton F.		Santa Cruz Biotechnology Inc	16-Jan-19
+L-065-18/0	Akin, Cem		Sanofi-Aventis	17-Jan-19
+L-065-18/0	Kirshenbaum, Arnold		Sanofi-Aventis	17-Jan-19
+L-065-18/0	Metcalfe, Dean D		Sanofi-Aventis	17-Jan-19
+L-093-05/4	Chakrabarti, Bimal K		Crucell Holland BV	18-Jan-19
+L-093-05/4	Cheng, Cheng		Crucell Holland BV	18-Jan-19
+L-093-05/4	(b) (6) Clement K. Asiedu		Crucell Holland BV	18-Jan-19
+L-093-05/4	Huang, (b) (6) Yue		Crucell Holland BV	18-Jan-19
+L-093-05/4	Mackett, Michael		Crucell Holland BV	18-Jan-19

(b) (3) (A), (b) (4), (b) (6)

+L-093-05/4	Moss, Bernard	(b)(4);	Crucell Holland BV	18-Jan-19
+L-093-05/4	Nabel, Gary J	(b)(6)	Crucell Holland BV	18-Jan-19
+L-093-05/4	Smith, Geoffrey L		Crucell Holland BV	18-Jan-19
+L-093-05/4	Sullivan, Nancy J		Crucell Holland BV	18-Jan-19
+L-093-05/4	Ward, Lucy A.		Crucell Holland BV	18-Jan-19
+L-093-05/4	Yang, Zhi-Yong		Crucell Holland BV	18-Jan-19
<i>Note: L-093-05/4 split between CDC; NIAID</i>				
+L-114-09/0	Blaney, Jr., Joseph E		Co for Vaccine and Bio Productin	22-Jan-19
+L-114-09/0	Hanley, Kathryn		Co for Vaccine and Bio Productin	22-Jan-19
+L-114-09/0	Lai, Ching-Juh		Co for Vaccine and Bio Productin	22-Jan-19
+L-114-09/0	Murphy, Brian R.		Co for Vaccine and Bio Productin	22-Jan-19
+L-114-09/0	Whitehead, Stephen S.		Co for Vaccine and Bio Productin	22-Jan-19
<i>Note: L-114-09/0 split between FDA; NIAID</i>				
+L-197-05/5	Chanock, (b) (6) Robert		Serum Institute of India	22-Jan-19
+L-197-05/5	Hoshino, Yasutaka		Serum Institute of India	22-Jan-19
+L-197-05/5	Kapikian, (b) (6) Albert Z		Serum Institute of India	22-Jan-19
+L-005-19/0	Brock, Linda G.		Medigen Vaccine Biologics Corp	22-Jan-19
+L-005-19/0	Buchholz, Ursula		Medigen Vaccine Biologics Corp	22-Jan-19
+L-005-19/0	Collins, Peter L.		Medigen Vaccine Biologics Corp	22-Jan-19
+L-005-19/0	Munir, Shirin		Medigen Vaccine Biologics Corp	22-Jan-19
+L-265-98/1	Bray, Michael		Sanofi Pasteur Biologics Co	23-Jan-19
+L-265-98/1	Chanock, (b) (6) Robert		Sanofi Pasteur Biologics Co	23-Jan-19
+L-265-98/1	Eckels, Kenneth H		Sanofi Pasteur Biologics Co	23-Jan-19
+L-265-98/1	Lai, Ching-Juh		Sanofi Pasteur Biologics Co	23-Jan-19
+L-265-98/1	Men, Ruhe		Sanofi Pasteur Biologics Co	23-Jan-19
+L-265-98/1	Pletnev, Alexander G		Sanofi Pasteur Biologics Co	23-Jan-19
+L-265-98/1	Zhang, Yi-Ming		Sanofi Pasteur Biologics Co	23-Jan-19
+L-271-18/0	NIAID		Medigen Vaccine Biologics Corp	25-Jan-19
+L-111-15/1	NIAID		Codagenix Inc.	26-Jan-19
+L-084-02/1	Shevach, Ethan M	(b)(4);	Miltenyi Biotec GMBH	28-Jan-19
		(b)(6)		
+L-098-10/0	Germain, Ronald N.		Miltenyi Biotec GmbH	28-Jan-19
+L-098-10/0	Porgador, Angel		Miltenyi Biotec GmbH	28-Jan-19
+L-084-02/1	Shevach, Ethan M		Miltenyi Biotec GMBH	28-Jan-19
+L-051-11/0	DeVico, Angela M.		Miltenyi Biotec GmbH	28-Jan-19
+L-051-11/0	Korty, Patricia E.		Miltenyi Biotec GmbH	28-Jan-19
+L-051-11/0	Shevach, Ethan M		Miltenyi Biotec GmbH	28-Jan-19
+L-089-12/0	Shevach, Ethan M		Miltenyi Biotec GMBH	28-Jan-19
+L-164-15/0	Emerson, Suzanne U.		Texcell	28-Jan-19
+L-164-15/0	Nguyen, Hanh T.		Texcell	28-Jan-19
+L-164-15/0	Purcell, Robert H		Texcell	28-Jan-19
+L-164-15/0	(b) (4)		Texcell	28-Jan-19
+L-164-15/0	Shukla Bajpai, Priyanka		Texcell	28-Jan-19
+L-080-06/3	NIAID		Panacea Biotech Ltd.	29-Jan-19
<i>Note: L-080-06/3 split between FDA; NIAID</i>				
+L-088-03/5	NIAID		International Medica Foundation	29-Jan-19

Note: L-088-03/5 split between NIAID; NIDDK

(b) (3) (A), (b) (4)

+L-149-15/1 NIAID

Serum Institute of India Ltd.

29-Jan-19

Note: L-149-15/1 split between FDA; NIAID

NIH Patent Licensing Activities

NIAID

February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License	Inventor Awards February	Net Remaining to IC
								Cumulative Income		
+L-207-13/2	Cheng, Cheng	(b)(4)	Hookipa Biotech AG	1-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-207-13/2	Mangalampalli, Venkata R.	(b)(6)	Hookipa Biotech AG	1-Feb-19						
+L-207-13/2	Merritt, Joshua S.		Hookipa Biotech AG	1-Feb-19						
+L-207-13/2	Schwartz, Richard M.		Hookipa Biotech AG	1-Feb-19						
+L-207-13/2	Wycuff, Diane L.		Hookipa Biotech AG	1-Feb-19						
+L-115-00/2	Cheung, Yiu Chong Gordon		List Biological Laboratories, Inc.	5-Feb-19						
+L-115-00/2	Gupta, Pradeep K.		List Biological Laboratories, Inc.	5-Feb-19						
+L-115-00/2	Hsu, Su-Cheng Dana		List Biological Laboratories, Inc.	5-Feb-19						
+L-115-00/2	Hu, Haijing		List Biological Laboratories, Inc.	5-Feb-19						
+L-115-00/2	Leppla, Stephen H.		List Biological Laboratories, Inc.	5-Feb-19						
+L-115-00/2	Leysath, Clinton E.		List Biological Laboratories, Inc.	5-Feb-19						
+L-115-00/2	Moayeri, Mahtab		List Biological Laboratories, Inc.	5-Feb-19						
+L-115-00/2	Pomerantsev, Andrei P		List Biological Laboratories, Inc.	5-Feb-19						
Note: L-115-00/2 split between NIAID; NIDCR										
+L-142-07/2	Mackett, Michael		Transgene S.A.	7-Feb-19						
+L-142-07/2	Moss, Bernard		Transgene S.A.	7-Feb-19						
+L-142-07/2	Smith, Geoffrey L		Transgene S.A.	7-Feb-19						
+L-001-15/2	Blaney, Jr., Joseph E		Merck Sharp & Dohme, Corp.	11-Feb-19						
+L-001-15/2	Bray, Michael		Merck Sharp & Dohme, Corp.	11-Feb-19						
+L-001-15/2	Chanock, (b) (6) Robert		Merck Sharp & Dohme, Corp.	11-Feb-19						
+L-001-15/2	Eckels, Kenneth H		Merck Sharp & Dohme, Corp.	11-Feb-19						
+L-001-15/2	Hanley, Kathryn		Merck Sharp & Dohme, Corp.	11-Feb-19						
+L-001-15/2	Lai, Ching-Juh		Merck Sharp & Dohme, Corp.	11-Feb-19						
+L-001-15/2	Men, Ruhe		Merck Sharp & Dohme, Corp.	11-Feb-19						
+L-001-15/2	Murphy, Brian R.		Merck Sharp & Dohme, Corp.	11-Feb-19						
+L-001-15/2	Pletnev, Alexander G		Merck Sharp & Dohme, Corp.	11-Feb-19						
+L-001-15/2	Whitehead, Stephen S.		Merck Sharp & Dohme, Corp.	11-Feb-19						
+L-001-15/2	Zhang, Yi-Ming		Merck Sharp & Dohme, Corp.	11-Feb-19						
Note: L-001-15/2 split between FDA; NIAID										
+L-012-07/2	Eisenbarth, (b) (6) George		Santa Cruz Biotechnology Inc	12-Feb-19						
+L-012-07/2	Fauci, Anthony		Santa Cruz Biotechnology Inc	12-Feb-19						
+L-012-07/2	Haynes, Barton F.		Santa Cruz Biotechnology Inc	12-Feb-19						
+L-115-00/2	Cheung, Yiu Chong Gordon		List Biological Laboratories, Inc.	13-Feb-19						
+L-115-00/2	Gupta, Pradeep K.		List Biological Laboratories, Inc.	13-Feb-19						
+L-115-00/2	Hsu, Su-Cheng Dana		List Biological Laboratories, Inc.	13-Feb-19						
+L-115-00/2	Hu, Haijing		List Biological Laboratories, Inc.	13-Feb-19						
+L-115-00/2	Leppla, Stephen H.		List Biological Laboratories, Inc.	13-Feb-19						
+L-115-00/2	Leysath, Clinton E.		List Biological Laboratories, Inc.	13-Feb-19						
+L-115-00/2	Moayeri, Mahtab		List Biological Laboratories, Inc.	13-Feb-19						
+L-115-00/2	Pomerantsev, Andrei P		List Biological Laboratories, Inc.	13-Feb-19						
Note: L-115-00/2 split between NIAID; NIDCR										

(b) (3) (A), (b) (4), (b) (6)

+L-016-11/1	Adachi, Akio	(b)(4); (b) (6)	Merck Sharp & Dohme, Corp.	19-Feb-19
+L-016-11/1	Folks, Thomas M	(b) (6)	Merck Sharp & Dohme, Corp.	19-Feb-19
+L-016-11/1	Leonard, John M.	(b) (6)	Merck Sharp & Dohme, Corp.	19-Feb-19
+L-016-11/1	Martin, Malcolm A	(b) (6)	Merck Sharp & Dohme, Corp.	19-Feb-19
+L-016-11/1	Rabson, Arnold B.	(b) (6)	Merck Sharp & Dohme, Corp.	19-Feb-19
+L-016-11/1	Rutledge, Rosamond A.	(b) (6)	Merck Sharp & Dohme, Corp.	19-Feb-19
+L-016-11/1	Theodore, (b) (6) Theodore S	(b) (6)	Merck Sharp & Dohme, Corp.	19-Feb-19
+L-016-11/1	Willey, Ronald L.	(b) (6)	Merck Sharp & Dohme, Corp.	19-Feb-19
+L-072-09/1	Long, Eric O.	(b) (6)	BioLegend	19-Feb-19
+L-072-09/1	Rajagopalan, Sumati	(b) (6)	BioLegend	19-Feb-19
+L-003-11/0	Germain, Ronald N.	(b) (6)	BioLegend	19-Feb-19
+L-003-11/0	Porgador, Angel	(b) (6)	BioLegend	19-Feb-19
+L-011-08/2	Shevach, Ethan M	(b) (6)	BioLegend	19-Feb-19
+L-162-08/1	Sun, Peter D	(b) (6)	BioLegend	19-Feb-19
+L-162-08/1	Zou, Zhongcheng	(b) (6)	BioLegend	19-Feb-19
<i>Note: L-162-08/1 split between NCI; NIAID</i>				
+L-005-03/1	Ohara, Junichi	(b) (6)	BioLegend Inc	19-Feb-19
+L-005-03/1	Paul, (b) (6) William E.	(b) (6)	BioLegend Inc	19-Feb-19
+L-071-10/0	DeVico, Angela M.	(b) (6)	BioLegend	19-Feb-19
+L-071-10/0	Korty, Patricia E.	(b) (6)	BioLegend	19-Feb-19
+L-071-10/0	Shevach, Ethan M	(b) (6)	BioLegend	19-Feb-19
+L-162-15/1	NIAID	(b) (6)	Merck Sharp and dohme	22-Feb-19
+L-197-05/5	Chanock, (b) (6) Robert	(b) (6)	Serum Institute of India	22-Feb-19
+L-197-05/5	Hoshino, Yasutaka	(b) (6)	Serum Institute of India	22-Feb-19
+L-197-05/5	Kapikian, (b) (6) Albert Z	(b) (6)	Serum Institute of India	22-Feb-19
+L-228-16/0	Adachi, Akio	(b) (6)	YiiV Healthca re Comp any	25-Feb-19
+L-228-16/0	Folks, Thomas M	(b) (6)	YiiV Healthca re Comp any	25-Feb-19
+L-228-16/0	Leonard, John M.	(b) (6)	YiiV Healthca re Comp any	25-Feb-19
+L-228-16/0	Martin, Malcolm A	(b) (6)	YiiV Healthca re Comp any	25-Feb-19
+L-228-16/0	Rabson, Arnold B.	(b) (6)	YiiV Healthca re Comp any	25-Feb-19
+L-228-16/0	Rutledge, Rosamond A.	(b) (6)	YiiV Healthca re Comp any	25-Feb-19
+L-228-16/0	Theodore, (b) (6) Theodore S	(b) (6)	YiiV Healthca re Comp any	25-Feb-19
+L-228-16/0	Willey, Ronald L.	(b) (6)	YiiV Healthca re Comp any	25-Feb-19
+L-078-11/0	Mackett, Michael	(b) (6)	CEVA Biomune	25-Feb-19
+L-078-11/0	Moss, Bernard	(b) (6)	CEVA Biomune	25-Feb-19
+L-078-11/0	Smith, Geoffrey L	(b) (6)	CEVA Biomune	25-Feb-19

NIH Patent Licensing Activities
NIAID
March 2019

License	Inventor	Inventor Share %	Licensor	Date of Deposit	License			Inventor Awards March	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income		
+L-074-91/3	Harriman, Gregory R.	(b)(4);	Becton Dickinson & Subsidiary PharMingen	1-Mar-19				(b) (3) (A), (b) (4), (b) (6)	
+L-074-91/3	Kunimoto, Dennis Y.	(b)(6)	Becton Dickinson & Subsidiary PharMingen	1-Mar-19					
+L-074-91/3	Paul, (b) (6) William E.	(b) (6)	Becton Dickinson & Subsidiary PharMingen	1-Mar-19					

+L-074-91/3	Strober, Warren	(b)(4); (b)(6)	Becton Dickinson & Subsidiary PharMingen	1-Mar-19
+L-113-04/1	Jeang, (b) (6) Kuan-Teh		Cell Signaling Technology, Inc.	1-Mar-19
+L-154-06/0	Mackett, Michael		Meril Limited	1-Mar-19
+L-154-06/0	Moss, Bernard		Meril Limited	1-Mar-19
+L-154-06/0	Smith, Geoffrey L		Meril Limited	1-Mar-19
+L-245-94/1	Folks, Thomas M		Boston Biomedics	1-Mar-19
+L-245-94/1	Martin, Malcolm A		Boston Biomedics	1-Mar-19
+L-245-94/1	Powell, Douglas M		Boston Biomedics	1-Mar-19
<i>Note: L-245-94/1 split between NCI; NIAID</i>				
+L-211-14/1	Biacchesi, Stephanie		ViraTree, LLC	1-Mar-19
+L-211-14/1	Buchholz, Ursula		ViraTree, LLC	1-Mar-19
+L-211-14/1	Bukreyev, Alexander		ViraTree, LLC	1-Mar-19
+L-211-14/1	Collins, Peter L.		ViraTree, LLC	1-Mar-19
+L-211-14/1	Luongo, Cindy L.		ViraTree, LLC	1-Mar-19
+L-211-14/1	Murphy, Brian R.		ViraTree, LLC	1-Mar-19
+L-211-14/1	Nutt, Anne S.		ViraTree, LLC	1-Mar-19
+L-211-14/1	(b) (4)		ViraTree, LLC	1-Mar-19
+L-211-14/1	Skiadopoulos, Mario		ViraTree, LLC	1-Mar-19
+L-211-14/1	(b) (4)		ViraTree, LLC	1-Mar-19
+L-011-15/0	Garboczi, David		EMD Millipore Corp.	1-Mar-19
+L-011-15/0	Lantz, Larry		EMD Millipore Corp.	1-Mar-19
+L-011-15/0	Leppla, Stephen H.		EMD Millipore Corp.	1-Mar-19
+L-011-15/0	Leysath, Clinton E.		EMD Millipore Corp.	1-Mar-19
+L-011-15/0	Phillips, Damilola D.		EMD Millipore Corp.	1-Mar-19
+L-119-13/0	Jeang, (b) (6) Kuan-Teh		EMD Millipore corp	1-Mar-19
+L-165-15/0	Davey, Richard T.		EMD Millipore Corporation	1-Mar-19
+L-165-15/0	Nutman, Thomas B.		EMD Millipore Corporation	1-Mar-19
+L-235-15/0	Best, Sonja M.		EMD Millipore Corp.	1-Mar-19
+L-235-15/0	Lubick, Kirk		EMD Millipore Corp.	1-Mar-19
+L-235-15/0	Robertson, Shelly J.		EMD Millipore Corp.	1-Mar-19
+L-225-94/4	Siebenlist, Ulrich		Upstate	1-Mar-19
+L-119-09/2	NIAID		Fundacao Butantan	1-Mar-19
<i>Note: L-119-09/2 split between FDA; NIAID</i>				
+L-119-09/2	Blaney, Jr., Joseph E	(b)(4);	Fundacao Butantan	1-Mar-19
+L-119-09/2	Hanley, Kathryn	(b)(6)	Fundacao Butantan	1-Mar-19
+L-119-09/2	Lai, Ching-Juh		Fundacao Butantan	1-Mar-19
+L-119-09/2	Murphy, Brian R.		Fundacao Butantan	1-Mar-19
+L-119-09/2	Whitehead, Stephen S.		Fundacao Butantan	1-Mar-19
<i>Note: L-119-09/2 split between FDA; NIAID</i>				
+L-001-98/2	Shevach, Ethan M		BD Biosciences	4-Mar-19
+L-056-12/0	DeVico, Angela M.		BD Biosciences	4-Mar-19
+L-056-12/0	Korty, Patricia E.		BD Biosciences	4-Mar-19
+L-056-12/0	Shevach, Ethan M		BD Biosciences	4-Mar-19
+L-078-11/0	Mackett, Michael		CEVA Biomune	4-Mar-19
+L-078-11/0	Moss, Bernard		CEVA Biomune	4-Mar-19

(b) (3) (A), (b) (4), (b) (6)

+L-078-11/0	Smith, Geoffrey L	(b)(4); (b)(6)	CEVA Biomune	4-Mar-19
+L-099-14/2	Garboczi, David		KeraFAST	4-Mar-19
+L-099-14/2	Lantz, Larry		KeraFAST	4-Mar-19
+L-099-14/2	Leppla, Stephen H.		KeraFAST	4-Mar-19
+L-099-14/2	Leysath, Clinton E.		KeraFAST	4-Mar-19
+L-099-14/2	Phillips, Damilola D.		KeraFAST	4-Mar-19
+L-080-06/3	Blaney, Jr., Joseph E		Panacea Biotech Ltd.	5-Mar-19
+L-080-06/3	Hanley, Kathryn		Panacea Biotech Ltd.	5-Mar-19
+L-080-06/3	Lai, Ching-Juh		Panacea Biotech Ltd.	5-Mar-19
+L-080-06/3	Murphy, Brian R.		Panacea Biotech Ltd.	5-Mar-19
+L-080-06/3	Whitehead, Stephen S.		Panacea Biotech Ltd.	5-Mar-19
<i>Note: L-080-06/3 split between FDA; NIAID</i>				
+L-199-17/0	Akahata, Wataru		Infectious Disease Research Institute	8-Mar-19
+L-199-17/0	Nabel, Gary J		Infectious Disease Research Institute	8-Mar-19
+L-199-17/0	Rao, Srinivas		Infectious Disease Research Institute	8-Mar-19
+L-199-17/0	Yang, Zhi-Yong		Infectious Disease Research Institute	8-Mar-19
+L-021-10/1	Long, Eric O.		EXBIO Praha	11-Mar-19
+L-021-10/1	Rajagopalan, Sumati		EXBIO Praha	11-Mar-19
+L-101-14/0	DeVico, Angela M.		EXBIO Praha	11-Mar-19
+L-101-14/0	Korty, Patricia E.		EXBIO Praha	11-Mar-19
+L-101-14/0	Shevach, Ethan M		EXBIO Praha	11-Mar-19
+L-228-16/0	Adachi, Akio		YiiV Healthca re Comp any	12-Mar-19
+L-228-16/0	Folks, Thomas M		YiiV Healthca re Comp any	12-Mar-19
+L-228-16/0	Leonard, John M.		YiiV Healthca re Comp any	12-Mar-19
+L-228-16/0	Martin, Malcolm A		YiiV Healthca re Comp any	12-Mar-19
+L-228-16/0	Rabson, Arnold B.		YiiV Healthca re Comp any	12-Mar-19
+L-228-16/0	Rutledge, Rosamond A.		YiiV Healthca re Comp any	12-Mar-19
+L-228-16/0	Theodore, (b) (6) Theodore S		YiiV Healthca re Comp any	12-Mar-19
+L-228-16/0	Willey, Ronald L.		YiiV Healthca re Comp any	12-Mar-19
+L-044-18/0	Boyington, Jeffrey C.		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Buchholz, Ursula		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Chen, Lei		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Chen, Man		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Chuang, Gwo-Yu		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Collins, Peter L.		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Druz, Aliaksandr A.		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Georgiev, Ivelin S.		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Gorman, Jason		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Graham, Barney S.		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Joyce, Michael G.		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Kanekiyo, Masaru		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Kong, Wing-pui		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Kwong, Peter D.		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Mascola, John R.		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	McLellan, Jason Scott		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	OFEK, GILAD A		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Ou, Li		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Pancera, Marie L.		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Sastry, Mallika		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Soto, Cinque		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Srivatsan, Sanjay R.		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Stewart-Jones, Guillaume BE		ModernaTX, Inc.	12-Mar-19

(b) (3) (A), (b) (4), (b) (6)

+L-044-18/0	Thomas, Paul V.	(b)(4);	ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Xu, Kai	(b)(6)	ModernaTX, Inc.	12-Mar-19
+L-044-18/0	YANG, YONGPING		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Zhang, Baoshan		ModernaTX, Inc.	12-Mar-19
+L-044-18/0	Zhou, Tongqing		ModernaTX, Inc.	12-Mar-19
+L-135-13/0	Hsu, Su-Cheng Dana		Biologics	12-Mar-19
+L-135-13/0	Leppla, Stephen H.		Biologics	12-Mar-19
+L-135-13/0	Pomerantsev, Andrei P		Biologics	12-Mar-19
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>				
+L-135-13/0	NIAID		Biologics	15-Mar-19
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>				
+L-169-07/2	Folks, Thomas M	(b)(4);	Gilead Sciences, Inc.	19-Mar-19
+L-169-07/2	Justement, Jesse S	(b)(6)	Gilead Sciences, Inc.	19-Mar-19
+L-169-07/2	Kinter, Audrey L		Gilead Sciences, Inc.	19-Mar-19
+L-130-05/2	Chanock, (b) (6) Robert		Biological E Limited	19-Mar-19
+L-130-05/2	Hoshino, Yasutaka		Biological E Limited	19-Mar-19
+L-130-05/2	Kapikian, (b) (6) Albert Z		Biological E Limited	19-Mar-19
+L-049-00/1	Shevach, Ethan M		eBioscience, Inc..	20-Mar-19
<i>Note: L-049-00/1 split between NCI; NIAID</i>				
+L-054-06/0	Germain, Ronald N.		eBioscience	20-Mar-19
+L-054-06/0	Porgador, Angel		eBioscience	20-Mar-19
+L-153-00/1	Ohara, Junichi		eBioscience	20-Mar-19
+L-153-00/1	Paul, (b) (6) William E.		eBioscience	20-Mar-19
+L-141-19/0	Gao, Jiliang		Applied Biological Materials Inc	20-Mar-19
+L-141-19/0	Martin Pontejo, Jesus Sergio		Applied Biological Materials Inc	20-Mar-19
+L-141-19/0	Murphy, Philip M.		Applied Biological Materials Inc	20-Mar-19
+L-181-14/0	Fink, Doran		InBios International Inc	21-Mar-19
+L-181-14/0	Kubofcik, Joseph		InBios International Inc	21-Mar-19
+L-181-14/0	Nutman, Thomas B.		InBios International Inc	21-Mar-19
<i>Note: L-181-14/0 split between NIAID; NIDCR</i>				
+L-248-15/0	Marques, Adriana		InBios International, Inc.	21-Mar-19
<i>Note: L-248-15/0 split between NIAID; NIDCR</i>				
+L-015-10/0	Ohara, Junichi		Millipore Corporation	22-Mar-19
+L-015-10/0	Paul, (b) (6) William E.		Millipore Corporation	22-Mar-19
+L-225-94/4	Siebenlist, Ulrich		Upstate	22-Mar-19
+L-063-18/0	Shevach, Ethan M		Millipore Sigma	22-Mar-19
+L-248-15/0	Marques, Adriana		InBios International, Inc.	22-Mar-19
<i>Note: L-248-15/0 split between NIAID; NIDCR</i>				
+L-094-10/0	DeVico, Angela M.		eBioscience	25-Mar-19
+L-094-10/0	Korty, Patricia E.		eBioscience	25-Mar-19
+L-094-10/0	Shevach, Ethan M		eBioscience	25-Mar-19
+L-140-98/1	Beeler, Judy A.		SmithKline Beecham	27-Mar-19
+L-140-98/1	Chanock, (b) (6) Robert		SmithKline Beecham	27-Mar-19

(b) (3) (A), (b) (4), (b) (6)

+L-140-98/1 Coelingh, Kathleen L.
+L-140-98/1 Collins, Peter L.
+L-140-98/1 Murphy, Brian R.

+L-259-02/0 Eisenbarth, (b) (6) George
Note: L-259-02/0 split between NHLBI; NIAID

(b)(4);
(b)(6) SmithKline Beecham
SmithKline Beecham
SmithKline Beecham
R & D Systems, Inc.

27-Mar-19
27-Mar-19
27-Mar-19
28-Mar-19

(b) (3) (A), (b) (4), (b) (6)

\$2,814,141.73	\$253,138.02	\$3,067,279.75	\$720,777.56	\$2,346,502.19
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIAMS
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
+L-202-18/0	Brydges, Susannah Diane	(b)(4); (b)(6)	University of California, San Diego	16-Oct-18						(b) (3) (A), (b) (4), (b) (6)
+L-202-18/0	Kastner, Daniel L	(6)	University of California, San Diego	16-Oct-18						

NIH Patent Licensing Activities
NIAMS
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC

NIH Patent Licensing Activities
NIAMS
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-243-16/0	Rao, Mahendra S	(b)(4); (b)(6)	StemCell Technologies Inc.	10-Dec-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-243-16/0 split between NHLBI; NIAMS</i>										
+L-054-18/0	Plotz, Paul H.		AVROBIO, Inc	13-Dec-18						
+L-054-18/0	Raben, Nina		AVROBIO, Inc	13-Dec-18						
+L-066-05/1	Kinet, Jean-Pierre		President and Fellows of Harvard College	28-Dec-18						
<i>Note: L-066-05/1 split between NIAMS; NIDCR</i>										

NIH Patent Licensing Activities
NIAMS
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-087-18/0	Plotz, Paul H.	(b)(4); (b)(6)	Actus Therapeutics	15-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-087-18/0	Raben, Nina	(6)	Actus Therapeutics	15-Jan-19						

NIH Patent Licensing Activities
NIAMS
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-243-16/0	Rao, Mahendra S	(b)(4); (b)(6)	StemCell Technologies Inc.	5-Feb-19						(b) (3) (A), (b) (4), (b) (6)

Note: L-243-16/0 split between NHLBI; NIAMS

+L-243-16/0 NIAMS

StemCell Technologies Inc.

22-Feb-19

Note: L-243-16/0 split between NHLBI; NIAMS

(b) (3) (A), (b) (4)

NIH Patent Licensing Activities
NIAMS
March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
					\$50,633.38	\$0.00	\$50,633.38		\$13,970.01	\$36,663.37

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIBIB
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
+L-214-18/0	Parekh, Sapun	(b)(4);	Yokogawa Electric Corporation	4-Oct-18						(b) (3) (A), (b) (4), (b) (6)
+L-214-18/0	Shroff, Hari	(b)(6)	Yokogawa Electric Corporation	4-Oct-18						
+L-214-18/0	York, Andrew G.		Yokogawa Electric Corporation	4-Oct-18						
<i>Note: L-214-18/0 split between NHLBI; NIBIB</i>										
+L-214-18/0	Parekh, Sapun	(b)(4);	Yokogawa Electric Corporation	4-Oct-18						
+L-214-18/0	Shroff, Hari	(b)(6)	Yokogawa Electric Corporation	4-Oct-18						
+L-214-18/0	York, Andrew G.		Yokogawa Electric Corporation	4-Oct-18						
<i>Note: L-214-18/0 split between NHLBI; NIBIB</i>										

NIH Patent Licensing Activities
NIBIB
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-004-19/0	Chen, Xiaoyuan	(b)(4);	Sinotau Pharmaceutical Group	16-Nov-18						(b) (3) (A), (b) (4), (b) (6)
+L-004-19/0	Weiss, Orit Jacobson	(b)(6)	Sinotau Pharmaceutical Group	16-Nov-18						
+L-087-07/1	NIBIB		MedGenesis Therapeutix	29-Nov-18						
<i>Note: L-087-07/1 split between NCI; NIBIB; NINDS</i>										

NIH Patent Licensing Activities
NIBIB
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-318-01/0	Goldstein, Seth R.	(b)(4);	Arcturus	6-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-318-01/0	Smith, Paul D.	(b)(6)	Arcturus	6-Dec-18						
<i>Note: L-318-01/0 split between CIT; NIBIB; NICHD</i>										
+L-276-18/0	Chen, Xiaoyuan	(b)(4);	Molecular Targeting Technologies, Inc	6-Dec-18						
+L-276-18/0	Weiss, Orit Jacobson	(b)(6)	Molecular Targeting Technologies, Inc	6-Dec-18						
+L-276-18/0	Chen, Xiaoyuan		Molecular Targeting Technologies, Inc	6-Dec-18						
+L-276-18/0	Weiss, Orit Jacobson		Molecular Targeting Technologies, Inc	6-Dec-18						
+L-276-18/0	Chen, Xiaoyuan		Molecular Targeting Technologies, Inc	6-Dec-18						
+L-276-18/0	Weiss, Orit Jacobson		Molecular Targeting Technologies, Inc	6-Dec-18						
+L-004-19/0	Chen, Xiaoyuan		Sinotau Pharmaceutical Group	11-Dec-18						

+L-004-19/0	Weiss, Orit Jacobson	(b)(4); (b)(6)	Sinotau Pharmaceutical Group	11-Dec-18	(b) (3) (A), (b) (4), (b) (6)
+L-214-18/0	Parekh, Sapun		Yokogawa Electric Corporation	27-Dec-18	
+L-214-18/0	Shroff, Hari		Yokogawa Electric Corporation	27-Dec-18	
+L-214-18/0	York, Andrew G.		Yokogawa Electric Corporation	27-Dec-18	
<i>Note: L-214-18/0 split between NHLBI; NIBIB</i>					
+L-214-18/0	Parekh, Sapun	(b)(4); (b)(6)	Yokogawa Electric Corporation	27-Dec-18	
+L-214-18/0	Shroff, Hari		Yokogawa Electric Corporation	27-Dec-18	
+L-214-18/0	York, Andrew G.		Yokogawa Electric Corporation	27-Dec-18	
<i>Note: L-214-18/0 split between NHLBI; NIBIB</i>					
+L-276-18/0	Chen, Xiaoyuan	(b)(4); (b)(6)	Molecular Targeting Technologies, Inc	28-Dec-18	
+L-276-18/0	Weiss, Orit Jacobson		Molecular Targeting Technologies, Inc	28-Dec-18	

**NIH Patent Licensing Activities
NIBIB
January 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
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**NIH Patent Licensing Activities
NIBIB
February 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
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+L-122-12/0	Mattiello, James H	(b)(4); (b)(6)	AnalyzeDirect Inc	13-Feb-19						(b) (3) (A), (b) (4), (b) (6)
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Note: L-122-12/0 split between CC; NIBIB; NICHD; NINDS

**NIH Patent Licensing Activities
NIBIB
March 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
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					\$296,445.92	\$0.00	\$296,445.92		\$65,774.34	\$230,671.58
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 NICHD
 October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total October	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
L-008-15/1	NICHD		xMD Diagnostics, LLC	4-Oct-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-008-15/1 split between CIT; NCI; NICHD</i>										
+L-026-13/1	Blithe, Diana L.	(b)(4);	Preglem SA	22-Oct-18						
+L-026-13/1	Nieman, Lynnette K.	(b)(6)	Preglem SA	22-Oct-18						

NIH Patent Licensing Activities
 NICHD
 November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total November	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		

NIH Patent Licensing Activities
 NICHD
 December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total December	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
+L-002-09/1	Dressler, Gregory R.	(b)(4);	Invitrogen Inc	6-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-318-01/0	Bonner, Robert F	(b)(6)	Arcturus	6-Dec-18						
<i>Note: L-318-01/0 split between CIT; NIBIB; NICHD</i>										
+L-076-05/0	Kossaczka, Zuzana		International Vaccine Inst.	12-Dec-18						
+L-076-05/0	Robbins, John B.		International Vaccine Inst.	12-Dec-18						
+L-076-05/0	Schneerson, Rachel		International Vaccine Inst.	12-Dec-18						
+L-076-05/0	Szu, Shousun C		International Vaccine Inst.	12-Dec-18						
<i>Note: L-076-05/0 split between NCI; NICHD; NIDDK</i>										
+L-076-08/0	Robbins, John B.		Emergent Product Development Gaithersbur	14-Dec-18						
+L-076-08/0	Schneerson, Rachel		Emergent Product Development Gaithersbur	14-Dec-18						
<i>Note: L-076-08/0 split between NICHD; NIDCR; NIDDK</i>										
+L-138-93/2	Crouch, Robert J.		Stratagene	18-Dec-18						
+L-069-18/0	Chou, Janice Y.		Dimension Therapeutics	19-Dec-18						
+L-064-09/0	Ozato Dawid, Keiko		eBioscience	19-Dec-18						
+L-215-14/0	Bridson, William E.		Quest Diagnostics, Inc.	20-Dec-18						
+L-215-14/0	Hertz, Roy		Quest Diagnostics, Inc.	20-Dec-18						
+L-215-14/0	Kingfield, Joyce G.		Quest Diagnostics, Inc.	20-Dec-18						
+L-215-14/0	Kohler, Peter O		Quest Diagnostics, Inc.	20-Dec-18						
+L-207-18/0	Chou, Janice Y.		Generation Bio	20-Dec-18						

+L-026-13/1	Blithe, Diana L.	(b)(4);	Preglem SA	21-Dec-18	(b) (3) (A), (b) (4), (b) (6)
+L-026-13/1	Nieman, Lynnette K.	(b)(6)	Preglem SA	21-Dec-18	
+L-008-15/1	Bonner, Robert F		xMD Diagnostics, LLC	28-Dec-18	

Note: L-008-15/1 split between CIT; NCI; NICHD

**NIH Patent Licensing Activities
NICHD
January 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total January	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		

**NIH Patent Licensing Activities
NICHD
February 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total February	License	Inventor Awards	Net Remaining to	
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income			February
+L-138-93/2	Crouch, Robert J.	(b)(4); (b)(6)	Stratagene	5-Feb-19	(b) (3) (A), (b) (4), (b) (6)						
+L-009-05/1	Robbins, John B.		Snaofi Pasteur	7-Feb-19							
+L-009-05/1	Schneerson, Rachel		Snaofi Pasteur	7-Feb-19							
+L-009-05/1	Szu, Shousun C		Snaofi Pasteur	7-Feb-19							
Note: L-009-05/1 split between NCI; NICHD; NIDDK											
+L-122-12/0	Basser, Peter J		AnalyzeDirect Inc	13-Feb-19							
+L-122-12/0	Pajevic, Sinisa		AnalyzeDirect Inc	13-Feb-19							
Note: L-122-12/0 split between CC; NIBIB; NICHD; NINDS											
+L-061-19/0	Chou, Janice Y.		Dimension Therapeutics	19-Feb-19							
+L-061-19/0	Chou, Janice Y.		Dimension Therapeutics	19-Feb-19							
+L-061-19/0	NICHD		Dimension Therapeutics	19-Feb-19							
+L-033-97/1	Dressler, Gregory R.		Covance Research Products, Inc.	19-Feb-19							

**NIH Patent Licensing Activities
NICHD
March 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total March	License	Inventor Awards	Net Remaining to
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income		
+L-079-18/0	Buonanno, Andres	(b)(4);	Millipore Sigma	1-Mar-19	(b) (3) (A), (b) (4), (b) (6)					
+L-079-18/0	Vullhorst, Detlef	(b)(6)	Millipore Sigma	1-Mar-19						
+L-180-14/0	Dey, Anup K		EMD Millipore Corp.	1-Mar-19						
+L-180-14/0	Ozato Dawid, Keiko		EMD Millipore Corp.	1-Mar-19						
+L-075-14/0	Huang, Freesia		EMD Millipore Corporation	1-Mar-19						
+L-075-14/0	Huang, Kuo-Ping		EMD Millipore Corporation	1-Mar-19						

					(b) (3) (A), (b) (4), (b) (6)	
+L-018-99/1	Dawid, Igor	(b)(4);	Chemicon International, Inc.	1-Mar-19		
+L-018-99/1	Karavanov, Alex A. or Irina	(b)(6)	Chemicon International, Inc.	1-Mar-19		
+L-254-02/2	Deligiannidis, Kristina M Galarneau		Chemicon International Inc	1-Mar-19		
+L-254-02/2	Klein, David C.		Chemicon International Inc	1-Mar-19		
+L-254-02/2	Korf, Horst-Werner		Chemicon International Inc	1-Mar-19		
+L-254-02/2	Weller, Joan		Chemicon International Inc	1-Mar-19		
+L-002-09/1	Dressler, Gregory R.		Invitrogen Inc	4-Mar-19		
+L-204-02/2	Chumakov, Ekaterina		Novus Biologicals, LLC	6-Mar-19		
+L-204-02/2	McDonald, John		Novus Biologicals, LLC	6-Mar-19		
+L-204-02/2	Woodgate, Roger		Novus Biologicals, LLC	6-Mar-19		
+L-096-17/0	Chou, Janice Y.		Dimension Therapeutics	6-Mar-19		
+L-135-13/0	Kubler-Kielb, Joanna		Biologics	12-Mar-19		
+L-135-13/0	Liu, Darrell T		Biologics	12-Mar-19		
+L-135-13/0	Majadly, Fathy D		Biologics	12-Mar-19		
+L-135-13/0	Robbins, John B.		Biologics	12-Mar-19		
+L-135-13/0	Schneerson, Rachel		Biologics	12-Mar-19		
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>						
+L-280-14/1	NICHD		Arche Opitex Biomedical, Inc.	13-Mar-19		
<i>Note: L-280-14/1 split between NICHD; NINDS</i>						
+L-137-12/0	Ozato Dawid, Keiko	(b)(4);	Pierce Biotechnology	14-Mar-19		
		(b)(6)				
+L-322-17/0	Chou, Janice Y.		CRISPR Therapeutics AG	15-Mar-19		
+L-135-13/0	NICHD		Biologics	15-Mar-19		
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>						
+L-207-18/0	Chou, Janice Y.	(b)(4);	Generation Bio	15-Mar-19		
		(b)(6)				
+L-255-02/2	Huang, Freesia		Upstate USA, Inc.	22-Mar-19		
+L-255-02/2	Huang, Kuo-Ping		Upstate USA, Inc.	22-Mar-19		

+ denotes a manual adjustment which has already been paid to the inventor

\$497,348.54	\$138,959.70	\$636,308.24	\$126,852.68	\$509,455.56
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NIH Patent Licensing Activities
NIDA
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-070-03/2	NIDA		Brainsway, Inc.	20-Sep-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-070-03/2 split between NIDA; NINDS</i>										
+L-070-03/2	Wise, Roy A	(b)(4);	Brainsway, Inc.	15-Oct-18						
+L-070-03/2	Zangen, Abraham	(b)(6)	Brainsway, Inc.	15-Oct-18						
<i>Note: L-070-03/2 split between NIDA; NINDS</i>										
+L-226-17/0	NIDA		EncepHeal Therapeutics, Inc	22-Oct-18						

NIH Patent Licensing Activities
NIDA
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-162-16/3	Rice, Kenner C.	(b)(4);	Inversago	5-Nov-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-162-16/3 split between NIAAA; NIDA</i>										
+L-305-17/0	Harvey, Brandon	(b)(6)	F. Hoffmann-La Roche Ltd	15-Nov-18						
+L-305-17/0	Hope, Bruce T		F. Hoffmann-La Roche Ltd	15-Nov-18						
+L-305-17/0	Richie, Christopher		F. Hoffmann-La Roche Ltd	15-Nov-18						
+L-206-18/0	Backman, Christina M		F. Hoffmann-La Roche Ltd	15-Nov-18						
+L-206-18/0	Tomac, Andreas C		F. Hoffmann-La Roche Ltd	15-Nov-18						
+L-206-18/0	Backman, Christina M		F. Hoffmann-La Roche Ltd	15-Nov-18						
+L-206-18/0	Tomac, Andreas C		F. Hoffmann-La Roche Ltd	15-Nov-18						
+L-305-17/0	Harvey, Brandon		F. Hoffmann-La Roche Ltd	15-Nov-18						
+L-305-17/0	Hope, Bruce T		F. Hoffmann-La Roche Ltd	15-Nov-18						
+L-305-17/0	Richie, Christopher		F. Hoffmann-La Roche Ltd	15-Nov-18						
+L-220-17/0	NIDA		Braeburn Pharmaceuticals Inc.	20-Nov-18						
+L-245-17/0	NIDA		Braeburn Pharmaceuticals Inc.	20-Nov-18						

NIH Patent Licensing Activities
NIDA
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-206-18/0	Backman, Christina M	(b)(4);	F. Hoffmann-La Roche Ltd	14-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-206-18/0	Tomac, Andreas C	(b)(6)	F. Hoffmann-La Roche Ltd	14-Dec-18						
+L-070-03/2	Wise, Roy A		Brainsway, Inc.	26-Dec-18						
+L-070-03/2	Zangen, Abraham		Brainsway, Inc.	26-Dec-18						

Note: L-070-03/2 split between NIDA; NINDS

NIH Patent Licensing Activities

NIDA

January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-276-17/0	Rice, Kenner C.	(b)(4);	Vital Spark Inc.	2-Jan-19						(b) (3) (A), (b) (4), (b) (6)
Note: L-276-17/0 split between NIAAA; NIDA		(b)(6)								
+L-276-17/0	Rice, Kenner C.		Vital Spark Inc.	2-Jan-19						
Note: L-276-17/0 split between NIAAA; NIDA										
+L-276-17/0	Rice, Kenner C.		Vital Spark Inc.	3-Jan-19						
Note: L-276-17/0 split between NIAAA; NIDA										
+L-220-17/0	Kumar, Vivek		Braeburn Pharmaceuticals Inc.	7-Jan-19						
+L-220-17/0	Newman, Amy H.		Braeburn Pharmaceuticals Inc.	7-Jan-19						
+L-220-17/0	Shaik, Anerbasha		Braeburn Pharmaceuticals Inc.	7-Jan-19						
+L-245-17/0	Cao, Jianjing		Braeburn Pharmaceuticals Inc.	7-Jan-19						
+L-245-17/0	Cyriac, George C.		Braeburn Pharmaceuticals Inc.	7-Jan-19						
+L-245-17/0	Grundt, Peter		Braeburn Pharmaceuticals Inc.	7-Jan-19						
+L-245-17/0	Newman, Amy H.		Braeburn Pharmaceuticals Inc.	7-Jan-19						
+L-250-18/0	NIDA		Hello Bio Ltd.	9-Jan-19						
Note: L-250-18/0 split between NIDA; NINDS										
+L-250-18/0	NIDA		Hello Bio Ltd.	11-Jan-19						
Note: L-250-18/0 split between NIDA; NINDS										
+L-250-18/0	NIDA		Hello Bio Ltd.	11-Jan-19						
Note: L-250-18/0 split between NIDA; NINDS										
+L-250-18/0	NIDA		Hello Bio Ltd.	11-Jan-19						
Note: L-250-18/0 split between NIDA; NINDS										

NIH Patent Licensing Activities

NIDA

February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-162-16/3	Rice, Kenner C.	(b)(4); (b)(6)	Inversago	1-Feb-19						(b) (3) (A), (b) (4), (b) (6)

Note: L-162-16/3 split between NIAAA; NIDA

NIH Patent Licensing Activities

NIDA

March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-276-17/0	NIDA		Vital Spark Inc.	11-Mar-19						(b) (3) (A), (b) (4)

Note: L-276-17/0 split between NIAAA; NIDA

\$110,938.95	\$25,436.83	\$136,375.78	\$25,499.54	\$110,876.24
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDCD
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-111-06/0	NIDCD		ICAD Inc	10-Oct-18						(b) (3) (A), (b) (4)

Note: L-111-06/0 split between CC; CIT; NIDCD

NIH Patent Licensing Activities
NIDCD
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCD
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
L-078-18/0	NIDCD		miRecule	18-Dec-18						(b) (3) (A), (b) (4)

NIH Patent Licensing Activities
NIDCD
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-111-06/0	Selbie, W. Scott	(b)(4); (b)	ICAD Inc	25-Jan-19						(b) (3) (A), (b) (4), (b) (6)

Note: L-111-06/0 split between CC; CIT; NIDCD

NIH Patent Licensing Activities
NIDCD
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCD
March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-154-16/0	Griffith, Andrew J.	(b)(4); (b)(6)	EMD Millipore	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-154-16/0	Labay, Valentia	(b)(6)	EMD Millipore	1-Mar-19						
+L-154-16/0	Makishima, Tomoko		EMD Millipore	1-Mar-19						
+L-179-14/0	Montcouquiol, Mireille		EMD Millipore Corp.	1-Mar-19						
+L-077-98/2	RJ Wenthold (b)(6)		Chemicon International, Inc.	1-Mar-19						
+L-214-92/8	RJ Wenthold (b)(6)		EMD Chemicals	1-Mar-19						
					\$9,970.24	\$23,561.00	\$33,531.24		\$3,624.21	\$29,907.03

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDCR
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-072-10/0	NIDCR		Mesoblast Inc.	26-Sep-18						(b) (3) (A), (b) (4), (b) (6)
+L-113-00/0	Adler, Jon Elliot	(b)(4);	University of California	16-Oct-18						
+L-113-00/0	Hoon, Mark	(b)(6)	University of California	16-Oct-18						
+L-113-00/0	Ryba, Nicholas		University of California	16-Oct-18						
+L-008-10/0	Erlenbach, Isolde		Regents Univ California	16-Oct-18						
+L-008-10/0	Hoon, Mark		Regents Univ California	16-Oct-18						
+L-008-10/0	Ryba, Nicholas		Regents Univ California	16-Oct-18						
+L-116-11/3	Chiorini, John A.		uniQure B.V.	22-Oct-18						

Note: L-116-11/3 split between NHLBI; NIDCR

NIH Patent Licensing Activities
NIDCR
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-152-17/0	Akiyama, Steven	(b)(4);	EMD Millipore Corporation	6-Nov-18						(b) (3) (A), (b) (4), (b) (6)
+L-152-17/0	Yamada, Kenneth	(b)(6)	EMD Millipore Corporation	6-Nov-18						
+L-152-17/0	Yamada, Susan Sleeper		EMD Millipore Corporation	6-Nov-18						
+L-263-18/0	NIDCR		MeiraGTx	28-Nov-18						
+L-263-18/0	Chiorini, John A.	(b)(4); (b)(6)	MeiraGTx	28-Nov-18						

NIH Patent Licensing Activities
NIDCR
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-152-02/3	Leppla, Stephen H.	(b)(4);	Emergent BioDefense	4-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-152-02/3	Park, Sukjoon	(b)(6)	Emergent BioDefense	4-Dec-18						
+L-152-02/3	Quinn, Conrad P.		Emergent BioDefense	4-Dec-18						
+L-152-02/3	Singh, Yogendra		Emergent BioDefense	4-Dec-18						
Note: L-152-02/3 split between NIAID; NIDCR										
+L-102-17/0	Keith, Jerry M		Inventprise LLC	4-Dec-18						
+L-102-17/0	Merkel, Todd J.		Inventprise LLC	4-Dec-18						
+L-102-17/0	Yang, Xiaoming		Inventprise LLC	4-Dec-18						
+L-116-11/3	Chiorini, John A.		uniQure B.V.	12-Dec-18						

Note: L-116-11/3 split between NHLBI; NIDCR

+L-048-03/1	NIDCR		Lees Pharmaceutical (HK) LTD	14-Dec-18
+L-076-08/0	Hsu, Su-Cheng Dana	(b)(4);	Emergent Product Development Gaithersbur	14-Dec-18
+L-076-08/0	Leppla, Stephen H.	(b)(6)	Emergent Product Development Gaithersbur	14-Dec-18
+L-076-08/0	Rosovitz, Mary Jo		Emergent Product Development Gaithersbur	14-Dec-18
Note: L-076-08/0 split between NICHD; NIDCR; NIDDK				
+L-182-17/0	Kulkarni, Ashok	(b)(4); (b)	Freeline Therapeutics Limited	19-Dec-18
+L-182-17/0	Ohshima, Toshio	(6)	Freeline Therapeutics Limited	19-Dec-18
Note: L-182-17/0 split between NIDCR; NINDS				
+L-066-05/1	Siraganian, Reuben	(b)(4); (b)	President and Fellows of Harvard College	28-Dec-18
Note: L-066-05/1 split between NIAMS; NIDCR				

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIDCR
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-171-08/1	Siraganian, Reuben	(b)(4); (b)(6)	BD Biosciences	3-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-111-17/0	Akiyama, Steven		BD Biosciences	3-Jan-19						
+L-111-17/0	Yamada, Kenneth		BD Biosciences	3-Jan-19						
+L-048-03/1	Elkin, Michael		Lees Pharmaceutical (HK) LTD	4-Jan-19						
+L-048-03/1	Kleinman, Hynda		Lees Pharmaceutical (HK) LTD	4-Jan-19						
+L-048-03/1	Philp, Deborah		Lees Pharmaceutical (HK) LTD	4-Jan-19						
+L-032-11/1	NIDCR		Sorrento Therapeutics, Inc	8-Jan-19						
+L-116-11/3	NIDCR		uniQure B.V.	9-Jan-19						
Note: L-116-11/3 split between NHLBI; NIDCR										
+L-072-10/0	Gronthos, Stan	(b)(4);	Mesoblast Inc.	23-Jan-19						
+L-072-10/0	Miura, Masako	(b)(6)	Mesoblast Inc.	23-Jan-19						
+L-072-10/0	Robey, Pamela G.		Mesoblast Inc.	23-Jan-19						
+L-072-10/0	Seo, Byoung-Moo		Mesoblast Inc.	23-Jan-19						
+L-072-10/0	Shi, Songtao		Mesoblast Inc.	23-Jan-19						

NIH Patent Licensing Activities
NIDCR
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-343-01/0	Keith, Jerry M	(b)(4);	List Biological Laboratories, Inc.	5-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-343-01/0	Merkel, Todd J.	(b)(6)	List Biological Laboratories, Inc.	5-Feb-19						
+L-343-01/0	Yang, Xiaoming		List Biological Laboratories, Inc.	5-Feb-19						

(b) (3) (A), (b) (4), (b) (6)

+L-115-00/2 Leppla, Stephen H. (b)(4); List Biological Laboratories, Inc. 5-Feb-19
 Note: L-115-00/2 split between NIAID; NIDCR (b)(6)

+L-115-00/2 Leppla, Stephen H. List Biological Laboratories, Inc. 13-Feb-19
 Note: L-115-00/2 split between NIAID; NIDCR

NIH Patent Licensing Activities
NIDCR
March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-152-17/0	Akiyama, Steven	(b)(4);	EMD Millipore Corporation	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-152-17/0	Yamada, Kenneth	(b)(6)	EMD Millipore Corporation	1-Mar-19						
+L-152-17/0	Yamada, Susan Sleeper		EMD Millipore Corporation	1-Mar-19						
+L-233-14/0	Fisher, Larry		EMD Millipore Corporation	1-Mar-19						
+L-111-17/0	Akiyama, Steven		BD Biosciences	4-Mar-19						
+L-111-17/0	Yamada, Kenneth		BD Biosciences	4-Mar-19						
+L-024-17/1	Fisher, Larry		KeraFAST	4-Mar-19						
+L-153-07/2	Fisher, Larry		Santa Cruz Biotech., Inc.	6-Mar-19						
+L-153-07/2	Fisher, Larry		Santa Cruz Biotech., Inc.	6-Mar-19						
+L-135-13/0	Hsu, Su-Cheng Dana		Biologics	12-Mar-19						
+L-135-13/0	Leppla, Stephen H.		Biologics	12-Mar-19						
+L-135-13/0	Rosovitz, Mary Jo		Biologics	12-Mar-19						
Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK										
+L-135-13/0	NIDCR		Biologics	15-Mar-19						
Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK										
+L-181-14/0	Burbelo, Peter D.	(b)(4);	InBios International Inc	21-Mar-19						
Note: L-181-14/0 split between NIAID; NIDCR (b)(6)										
+L-248-15/0	Burbelo, Peter D.		InBios International, Inc.	21-Mar-19						
+L-248-15/0	Iadarola, Michael J.		InBios International, Inc.	21-Mar-19						
Note: L-248-15/0 split between NIAID; NIDCR										
+L-142-12/2	Kleinman, Hynda		Odin Biotech, LLC	21-Mar-19						
Note: L-142-12/2 split between NEI; NIDCR										
+L-248-15/0	Burbelo, Peter D.		InBios International, Inc.	22-Mar-19						
+L-248-15/0	Iadarola, Michael J.		InBios International, Inc.	22-Mar-19						
Note: L-248-15/0 split between NIAID; NIDCR										

\$305,315.25	\$137,202.40	\$442,517.65	\$74,545.44	\$367,972.21
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDDK
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-208-15/0	NIDDK		Viratas Biopharmaceuticals, LLC	11-Oct-18						(b) (3) (A), (b) (4)

Note: L-208-15/0 split between NCATS; NIDDK

NIH Patent Licensing Activities
NIDDK
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
L-240-17/0	NIDDK		United Therapeutics Corporation	13-Nov-18						(b) (3) (A), (b) (4), (b) (6)
+L-204-99/1	Jacobson, Kenneth A	(b)(4); (b)	University of Virginia Patent Found.	21-Nov-18						

Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS

NIH Patent Licensing Activities
NIDDK
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-169-02/1	NIDDK		Trophogen	1-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-339-17/0	Appella, Daniel H	(b)(4);	Altra Tech Ltd	3-Dec-18						
+L-339-17/0	Englund, Ethan A.	(b)(6)	Altra Tech Ltd	3-Dec-18						
+L-339-17/0	Micklitsch, Christopher		Altra Tech Ltd	3-Dec-18						
+L-339-17/0	Oquare, Bereket		Altra Tech Ltd	3-Dec-18						
+L-339-17/0	Wang, Deyun		Altra Tech Ltd	3-Dec-18						
+L-339-17/0	Zhang, Ning		Altra Tech Ltd	3-Dec-18						
+L-339-17/0	Zhao, Chao		Altra Tech Ltd	3-Dec-18						
+L-033-19/0	Goldsmith, Paul K		Bio-Techne Corporation	4-Dec-18						
+L-033-19/0	Spiegel, Allen M.		Bio-Techne Corporation	4-Dec-18						
+L-033-19/0	Goldsmith, Paul K		Bio-Techne Corporation	4-Dec-18						
+L-033-19/0	Spiegel, Allen M.		Bio-Techne Corporation	4-Dec-18						
+L-159-07/2	Schechter, Alan N.		Hope Pharmaceuticals	11-Dec-18						
Note: L-159-07/2 split between CC; NHLBI; NIDDK; NINDS										
+L-143-07/2	Schechter, Alan N.	(b)(4);	Hope Pharmaceuticals	11-Dec-18						
Note: L-143-07/2 split between CC; NHLBI; NIDDK										
+L-076-05/0	Shiloach, Joseph	(b)(4);	International Vaccine Inst.	12-Dec-18						
Note: L-076-05/0 split between NCI; NICHD; NIDDK										

+L-076-08/0	Ramirez, Delia	(b)(4);	Emergent Product Development Gaithersbur	14-Dec-18
+L-076-08/0	Shiloach, Joseph	(b)(6)	Emergent Product Development Gaithersbur	14-Dec-18
<i>Note: L-076-08/0 split between NICHD; NIDCR; NIDDK</i>				
+L-283-17/0	Jacobson, Kenneth A	(b)(4);	Tocris Cookson Ltd.	17-Dec-18
+L-283-17/0	Tosh, Dilip K.	(b)(6)	Tocris Cookson Ltd.	17-Dec-18
+L-132-12/2	Chandramohan, Dhruva		Metalogics Corp	27-Dec-18
+L-132-12/2	Chou, Carson C.		Metalogics Corp	27-Dec-18
+L-132-12/2	Hall, Kevin		Metalogics Corp	27-Dec-18

(b) (3) (A), (b) (4), (b) (6)

**NIH Patent Licensing Activities
NIDDK
January 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
*+L-075-17/0	Jacobson, Kenneth A	(b)(4);	Biointervene Inc.	1-Jan-19						(b) (3) (A), (b) (4), (b) (6)
*+L-075-17/0	Melman, Artem	(b)(6)	Biointervene Inc.	1-Jan-19						
+L-075-17/0	(b) (4)		Biointervene Inc.	1-Jan-19						
*+L-075-17/0	Tosh, Dilip K.		Biointervene Inc.	1-Jan-19						
*+L-088-03/5	NIDDK		International Medica Foundation	29-Jan-19						
<i>Note: L-088-03/5 split between NIAID; NIDDK</i>										
*+L-159-07/2	NIDDK		Hope Pharmaceuticals	29-Jan-19						
<i>Note: L-159-07/2 split between CC; NHLBI; NIDDK; NINDS</i>										

**NIH Patent Licensing Activities
NIDDK
February 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-009-05/1	Shiloach, Joseph	(b)(4);	Snaofi Pasteur	7-Feb-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-009-05/1 split between NCI; NICHD; NIDDK</i>										
+L-125-96/3	Sauer, Brian	(b)(4);	Covance Research Products, Inc.	19-Feb-19						

**NIH Patent Licensing Activities
NIDDK
March 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-173-15/3	Ge, Kai	(b)(4);	Millipore Sigma	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-173-15/3	Lee, Ji-Eun	(b)(6)	Millipore Sigma	1-Mar-19						

					(b) (3) (A), (b) (4), (b) (6)	
+L-192-16/0	Dean, Jurrien	(b)(4);	EMD Milliore Corp	1-Mar-19		
+L-192-16/0	East, Iain	(b)(6)	EMD Milliore Corp	1-Mar-19		
+L-001-14/0	Proia, Richard L		EMD Millipore Corp.	1-Mar-19		
+L-242-13/0	Proia, Richard L		EMD Millipore Corp.	1-Mar-19		
+L-047-03/0	Goldsmith, Paul K		Affinity Bioreagents Inc	4-Mar-19		
+L-047-03/0	Spiegel, Allen M.		Affinity Bioreagents Inc	4-Mar-19		
+L-120-18/0	Rehermann, Barbara		Taconic Biosciences, Inc.	5-Mar-19		
+L-120-18/0	Rosshart, Stephan Patrick		Taconic Biosciences, Inc.	5-Mar-19		
+L-120-18/0	Rehermann, Barbara		Taconic Biosciences, Inc.	5-Mar-19		
+L-120-18/0	Rosshart, Stephan Patrick		Taconic Biosciences, Inc.	5-Mar-19		
+L-120-18/0	Rehermann, Barbara		Taconic Biosciences, Inc.	5-Mar-19		
+L-120-18/0	Rosshart, Stephan Patrick		Taconic Biosciences, Inc.	5-Mar-19		
+L-149-17/0	Oral, Elif A.		Aegerion Pharmaceuticals, Inc.	6-Mar-19		
+L-149-17/0	Taylor, Simeon		Aegerion Pharmaceuticals, Inc.	6-Mar-19		
+L-173-15/3	Ge, Kai		Millipore Sigma	7-Mar-19		
+L-173-15/3	Lee, Ji-Eun		Millipore Sigma	7-Mar-19		
+L-135-13/0	Shiloach, Joseph		Biologics	12-Mar-19		
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>						
+L-075-17/1	Jacobson, Kenneth A	(b)(4);	BiIntervene Inc.	13-Mar-19		
+L-075-17/1	Melman, Artem	(b)(6)	BiIntervene Inc.	13-Mar-19		
+L-075-17/1	(b) (4)		BiIntervene Inc.	13-Mar-19		
+L-075-17/1	Tosh, Dilip K.		BiIntervene Inc.	13-Mar-19		
+L-135-13/0	NIDDK		Biologics	15-Mar-19		
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>						
+L-075-17/1	NIDDK		BiIntervene Inc.	15-Mar-19		

\$126,666.65	\$54,925.46	\$181,592.11	\$41,453.93	\$140,138.18
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* denotes an adjustment to fix a problem from a previous month

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIEHS
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
+L-063-93/1	Eddy, Edward	(b)(4); (b)	Affinity BioReagents	26-Sep-18						(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIEHS
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-244-16/0	(b) (4)	(b)(4);	Sumitomo Pharmaceuticals	21-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-244-16/0	Moore, Rickie	(b)(6)	Sumitomo Pharmaceuticals	21-Dec-18						
+L-244-16/0	Negishi, Masahiko		Sumitomo Pharmaceuticals	21-Dec-18						

NIH Patent Licensing Activities
NIEHS
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-119-10/0	Ehrenshaft, Marilyn I	(b)(4);	StressMarq Biosci.	16-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-119-10/0	Mason, Ronald P.	(b)(6)	StressMarq Biosci.	16-Jan-19						
+L-119-10/0	Summers, Fiona A.		StressMarq Biosci.	16-Jan-19						
+L-080-94/3	(b) (4)		Oxford Biomedical Research, Inc.	17-Jan-19						
+L-080-94/3	Wetsel, William		Oxford Biomedical Research, Inc.	17-Jan-19						

NIH Patent Licensing Activities
NIEHS
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-144-04/3	Ehrenshaft, Marilyn I	(b)(4);	Cayman Chemical Company	25-Feb-19						(b) (3) (A), (b) (4), (b) (6)

+L-144-04/3 Mason, Ronald P.

(b)(4): Cayman Chemical Company

25-Feb-19

(b) (3) (A), (b) (4), (b) (6)

**NIH Patent Licensing Activities
NIEHS
March 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total March	License	Inventor Awards	Net Remaining to						
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income			March	IC				
+L-010-05/4	DiAugustine, Richard P	(b)(4):	Millipore Corporation	1-Mar-19												
+L-010-05/4	Teng, Christina T.	(b)(6)	Millipore Corporation	1-Mar-19												
+L-013-15/0	Cidlowski, John A.		EMD Millipore Corp.	1-Mar-19												
+L-013-15/0	Oakley, Robert		EMD Millipore Corp.	1-Mar-19												
+L-011-18/0	Bradbury, Jennifer Alyce		KeraFAST	4-Mar-19												
+L-011-18/0	Graves, Joan P.		KeraFAST	4-Mar-19												
+L-011-18/0	Zeldin, Darryl C		KeraFAST	4-Mar-19												
+L-219-17/0	Ehrenshaft, Marilyn I		KeraFAST	4-Mar-19												
+L-219-17/0	Mason, Ronald P.		KeraFAST	4-Mar-19												
+L-219-17/0	Summers, Fiona A.		KeraFAST	4-Mar-19												
+L-042-01/2	Beckley, Amy J.		Pierce Biotechnology	14-Mar-19												
+L-042-01/2	Cidlowski, John A.		Pierce Biotechnology	14-Mar-19												
+L-010-05/4	DiAugustine, Richard P		Millipore Corporation	22-Mar-19												
+L-010-05/4	Teng, Christina T.		Millipore Corporation	22-Mar-19												
+L-079-16/1	Baek, Seung Joon		Janssen Research & Development	27-Mar-19												
+L-079-16/1	Eling, Thomas E		Janssen Research & Development	27-Mar-19												
											\$46,557.15	\$0.00	\$46,557.15		\$20,032.23	\$26,524.92

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIMH
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
NIMH
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
NIMH
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-050-11/1	Dold, George R.	(b)(4);	Passy-Muir	14-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-050-11/1	Morgan, Newlin T.	(b)(6)	Passy-Muir	14-Dec-18						
<i>Note: L-050-11/1 split between NIMH; NINDS</i>										
+L-091-18/0	Drevets, Wayne C		Defender Pharmaceuticals	26-Dec-18						
+L-091-18/0	Furey, Maura L.		Defender Pharmaceuticals	26-Dec-18						

NIH Patent Licensing Activities
NIMH
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-302-14/0	NIMH		KannaLife Sciences, Inc.	24-Jan-19						(b) (3) (A), (b) (4)
<i>Note: L-302-14/0 split between NIMH; NINDS</i>										

NIH Patent Licensing Activities
NIMH
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-313-14/0	Hu, Huaizhong	(b)(4);	Angimmune LLC	1-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-313-14/0	Ma, Shenglin	(b)(6)	Angimmune LLC	1-Feb-19						
+L-313-14/0	Neville, David		Angimmune LLC	1-Feb-19						
+L-313-14/0	Scharff, Joshua		Angimmune LLC	1-Feb-19						
+L-313-14/0	Thompson, Jerry		Angimmune LLC	1-Feb-19						
+L-313-14/0	(b) (4)		Angimmune LLC	1-Feb-19						

+L-313-14/0	(b) (4)	(b)(4);	Angimmune LLC	1-Feb-19	(b) (3) (A), (b) (4), (b) (6)
+L-313-14/0	Woo, Jung-Hee	(b)(6)	Angimmune LLC	1-Feb-19	
+L-213-94/1	Mahan, Lawrence C.		Eurofins Panlabs	20-Feb-19	

Note: L-213-94/1 split between NIMH; NINDS

**NIH Patent Licensing Activities
NIMH
March 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
+L-091-18/0	Drevets, Wayne C	(b)(4);	Defender Pharmaceuticals	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)
+L-091-18/0	Furey, Maura L.	(b)(6)	Defender Pharmaceuticals	1-Mar-19						
+L-201-98/1	Jacobowitz, David		Millipore Corp.	1-Mar-19						
+L-201-98/1	Winsky, Lois		Millipore Corp.	1-Mar-19						
+L-327-02/0	Kowalak, Jeffrey A.		Shimadzu Corp.	8-Mar-19						
+L-327-02/0	Markey, Sanford P.		Shimadzu Corp.	8-Mar-19						
+L-327-02/0	Masuda, Junichi		Shimadzu Corp.	8-Mar-19						
+L-327-02/0	Unsworth, Edward J.		Shimadzu Corp.	8-Mar-19						
+L-026-19/0	Swedo, Susan E		Board of Regents of the University of Ok	13-Mar-19						
+L-018-10/0	Manji, Hussein K.		Mount Sinai Med Cntr	18-Mar-19						
+L-018-10/0	Zarate, Carlos A.		Mount Sinai Med Cntr	18-Mar-19						
+L-328-17/0	Cohen, Robert M.		PsychoGenics Inc.	20-Mar-19						
+L-328-17/0	Ye, Daniel		PsychoGenics Inc.	20-Mar-19						
+L-231-94/3	Jacobowitz, David		Millipore Sigma	22-Mar-19						
+L-231-94/3	Strauss, Kenneth I		Millipore Sigma	22-Mar-19						
+L-231-94/3	Winsky, Lois		Millipore Sigma	22-Mar-19						
+L-165-97/2	Jacobowitz, David		Millipore Sigma	22-Mar-19						
+L-165-97/2	Winsky, Lois		Millipore Sigma	22-Mar-19						
+L-113-12/0	Axelrod, (b) (6) Julius		KannaLife Sciences, Inc	26-Mar-19						
+L-113-12/0	Hampson, Aidan J.		KannaLife Sciences, Inc	26-Mar-19						

Note: L-113-12/0 split between NIMH; NINDS

+L-302-14/0 Axelrod, (b) (6) Julius KannaLife Sciences, Inc. 26-Mar-19

+L-302-14/0 Hampson, Aidan J. KannaLife Sciences, Inc. 26-Mar-19

Note: L-302-14/0 split between NIMH; NINDS

\$104,727.12	\$2,763.00	\$107,490.12	\$33,697.35	\$73,792.77
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NINDS
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
L-070-03/2	NINDS		Brainsway, Inc.	20-Sep-18						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-070-03/2 split between NIDA; NINDS</i>										
+L-070-03/2	Hallett, Mark	(b)(4);	Brainsway, Inc.	15-Oct-18						
+L-070-03/2	Miranda, Pedro	(b)(6)	Brainsway, Inc.	15-Oct-18						
+L-070-03/2	Roth, Yiftach		Brainsway, Inc.	15-Oct-18						
<i>Note: L-070-03/2 split between NIDA; NINDS</i>										

NIH Patent Licensing Activities
NINDS
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
+L-032-19/0	Jin, Seok-Min	(b)(4);	Mitokinin	1-Nov-18						(b) (3) (A), (b) (4), (b) (6)
+L-032-19/0	Youle, Richard J.	(b)(6)	Mitokinin	1-Nov-18						
+L-121-08/0	NINDS		Medtronic Inc	6-Nov-18						
<i>Note: L-121-08/0 split between NCI; NINDS</i>										
+L-240-17/0	NINDS		United Therapeutics Corporation	13-Nov-18						
<i>Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS</i>										
+L-185-04/1	Hou, Jean	(b)(4);	Mubio Products BV	13-Nov-18						
+L-185-04/1	Major, Eugene O	(b)(6)	Mubio Products BV	13-Nov-18						
+L-185-04/1	Messam, Conrad A		Mubio Products BV	13-Nov-18						
+L-002-19/0	Lee, Myoung Hwa		Geneuro SA	28-Nov-18						
+L-002-19/0	Li, Wenxue		Geneuro SA	28-Nov-18						
+L-002-19/0	Nath, Avindra		Geneuro SA	28-Nov-18						
+L-002-19/0	Steiner, Joseph Perry		Geneuro SA	28-Nov-18						
+L-087-07/1	NINDS		MedGenesis Therapeutix	29-Nov-18						
<i>Note: L-087-07/1 split between NCI; NIBIB; NINDS</i>										

NIH Patent Licensing Activities
NINDS
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
+L-002-19/0	Lee, Myoung Hwa	(b)(4);	Geneuro SA	1-Dec-18						(b) (3) (A), (b) (4), (b) (6)
+L-002-19/0	Li, Wenxue	(b)(6)	Geneuro SA	1-Dec-18						

+L-002-19/0	Nath, Avindra	(b)(4);	Geneuro SA	1-Dec-18
+L-002-19/0	Steiner, Joseph Perry	(b)(6)	Geneuro SA	1-Dec-18
+L-007-19/0	Hsu, Yite		Abcam plc	7-Dec-18
+L-007-19/0	Youle, Richard J.		Abcam plc	7-Dec-18
+L-304-17/1	Youle, Richard J.		Genentech. Inc.	11-Dec-18
+L-159-07/2	Oldfield, (b) (6) Edward H.		Hope Pharmaceuticals	11-Dec-18
+L-159-07/2	Pluta, Ryszard M		Hope Pharmaceuticals	11-Dec-18
<i>Note: L-159-07/2 split between CC; NHLBI; NIDDK; NINDS</i>				
+L-050-11/1	Humbert, Janessa A	(b)(4);	Passy-Muir	14-Dec-18
+L-050-11/1	Lowell, Soren Y	(b)(6)	Passy-Muir	14-Dec-18
+L-050-11/1	Ludlow, Christy L.		Passy-Muir	14-Dec-18
+L-050-11/1	Poletto, Christopher J.		Passy-Muir	14-Dec-18
<i>Note: L-050-11/1 split between NIMH; NINDS</i>				
+L-053-00/1	Hsu, Yite		eBioscience	18-Dec-18
+L-053-00/1	Youle, Richard J.		eBioscience	18-Dec-18
+L-008-08/1	Hsu, Yite		Biolegend	18-Dec-18
+L-008-08/1	Youle, Richard J.		Biolegend	18-Dec-18
+L-058-13/1	Hou, Jean		BioLegend	18-Dec-18
+L-058-13/1	Major, Eugene O		BioLegend	18-Dec-18
+L-058-13/1	Messam, Conrad A		BioLegend	18-Dec-18
+L-198-17/0	Dobersen, Michael J		BioLegend	18-Dec-18
+L-198-17/0	Hammer, Jeffrey A.		BioLegend	18-Dec-18
+L-198-17/0	Noronha, Antonio B		BioLegend	18-Dec-18
+L-198-17/0	Quarles, Richard H.		BioLegend	18-Dec-18
+L-125-04/1	Hou, Jean		BIOLEGEND INC	18-Dec-18
+L-125-04/1	Major, Eugene O		BIOLEGEND INC	18-Dec-18
+L-125-04/1	Messam, Conrad A		BIOLEGEND INC	18-Dec-18
+L-182-17/0	Brady, (b) (6) Roscoe O		Freeline Therapeutics Limited	19-Dec-18
+L-182-17/0	Murray, Gary J		Freeline Therapeutics Limited	19-Dec-18
<i>Note: L-182-17/0 split between NIDCR; NINDS</i>				
+L-036-99/3	Hsu, Yite		Bender MedSystems GmbH	19-Dec-18
+L-036-99/3	Suzuki, Motoshi		Bender MedSystems GmbH	19-Dec-18
+L-036-99/3	Youle, Richard J.		Bender MedSystems GmbH	19-Dec-18
+L-141-06/2	Jensen, Peter N		ViraCor Laboratories	20-Dec-18
+L-141-06/2	Major, Eugene O		ViraCor Laboratories	20-Dec-18
+L-070-03/2	Hallett, Mark		Brainsway, Inc.	26-Dec-18
+L-070-03/2	Miranda, Pedro		Brainsway, Inc.	26-Dec-18
+L-070-03/2	Roth, Yiftach		Brainsway, Inc.	26-Dec-18
<i>Note: L-070-03/2 split between NIDA; NINDS</i>				

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NINDS
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC	
+L-083-11/0	Bielekova, Bibiana B	(b)(4);	Abbott Biotherapeutics Corp.	1-Jan-19						(b) (3) (A), (b) (4), (b) (6)	
+L-083-11/0	Martin, Roland	(b)(6)	Abbott Biotherapeutics Corp.	1-Jan-19							
+L-083-11/0	McFarland, Henry F.		Abbott Biotherapeutics Corp.	1-Jan-19							
<i>Note: L-083-11/0 split between NCI; NINDS</i>											
+L-084-97/4	Hsu, Yite		BD Biosciences	3-Jan-19							
+L-084-97/4	Youle, Richard J.		BD Biosciences	3-Jan-19							
+L-002-19/0	Lee, Myoung Hwa		Geneuro SA	3-Jan-19							
+L-002-19/0	Li, Wenxue		Geneuro SA	3-Jan-19							
+L-002-19/0	Nath, Avindra		Geneuro SA	3-Jan-19							
+L-002-19/0	Steiner, Joseph Perry		Geneuro SA	3-Jan-19							
+L-250-18/0	NINDS		Hello Bio Ltd.	9-Jan-19							
<i>Note: L-250-18/0 split between NIDA; NINDS</i>											
+L-185-04/1	Hou, Jean		Mubio Products BV	10-Jan-19							
+L-185-04/1	Major, Eugene O		Mubio Products BV	10-Jan-19							
+L-185-04/1	Messam, Conrad A		Mubio Products BV	10-Jan-19							
+L-250-18/0	NINDS		Hello Bio Ltd.	11-Jan-19							
<i>Note: L-250-18/0 split between NIDA; NINDS</i>											
+L-250-18/0	NINDS		Hello Bio Ltd.	11-Jan-19							
<i>Note: L-250-18/0 split between NIDA; NINDS</i>											
+L-250-18/0	NINDS		Hello Bio Ltd.	11-Jan-19							
<i>Note: L-250-18/0 split between NIDA; NINDS</i>											
+L-025-02/0	NINDS		Chemicon International Inc	14-Jan-19							
<i>Note: L-025-02/0 split between NEI; NINDS</i>											
+L-025-02/0	Schwartz, Joan P	(b)(4);	Chemicon International Inc	14-Jan-19							
+L-025-02/0	Sugita, Yukihiro	(b)(6)	Chemicon International Inc	14-Jan-19							
+L-025-02/0	Taniwaki, Takayuki		Chemicon International Inc	14-Jan-19							
<i>Note: L-025-02/0 split between NEI; NINDS</i>											
+L-079-17/0	Warach, Steven J.		VuEssence, Inc.	16-Jan-19							
<i>Note: L-079-17/0 split between NIA; NINDS; NINR</i>											
+L-182-04/2	Hou, Jean		Novus Biologicals Inc	17-Jan-19							
+L-182-04/2	Major, Eugene O		Novus Biologicals Inc	17-Jan-19							
+L-182-04/2	Messam, Conrad A		Novus Biologicals Inc	17-Jan-19							
+L-302-14/0	NINDS		KannaLife Sciences, Inc.	24-Jan-19							
<i>Note: L-302-14/0 split between NIMH; NINDS</i>											

(b) (3) (A), (b) (4), (b) (6)

+L-185-04/1	Hou, Jean	(b)(4);	Mubio Products BV	28-Jan-19
+L-185-04/1	Major, Eugene O	(b)(6)	Mubio Products BV	28-Jan-19
+L-185-04/1	Messam, Conrad A		Mubio Products BV	28-Jan-19

+L-159-07/2	NINDS		Hope Pharmaceuticals	29-Jan-19
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Note: L-159-07/2 split between CC; NHLBI; NIDDK; NINDS

NIH Patent Licensing Activities

NINDS

February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
+L-092-17/0	NINDS		Cogentis Therapeutics	1-Feb-19						(b) (3) (A), (b) (4), (b) (6)
+L-106-02/1	Hsu, Yite	(b)(4);	BioCare Medical, LLC	1-Feb-19						
+L-106-02/1	Youle, Richard J.	(b)(6)	BioCare Medical, LLC	1-Feb-19						
+L-208-01/3	Hou, Jean		Millipore Sigma	8-Feb-19						
+L-208-01/3	Major, Eugene O		Millipore Sigma	8-Feb-19						
+L-208-01/3	Messam, Conrad A		Millipore Sigma	8-Feb-19						
+L-122-12/0	Pierpaoli, Carlo		AnalyzeDirect Inc	13-Feb-19						
<i>Note: L-122-12/0 split between CC; NIBIB; NICHD; NINDS</i>										
+L-065-03/1	Hsu, Yite	(b)(4);	Covance Research Products Inc	19-Feb-19						
+L-065-03/1	Youle, Richard J.	(b)(6)	Covance Research Products Inc	19-Feb-19						
+L-125-04/1	Hou, Jean		BIOLEGEND INC	19-Feb-19						
+L-125-04/1	Major, Eugene O		BIOLEGEND INC	19-Feb-19						
+L-125-04/1	Messam, Conrad A		BIOLEGEND INC	19-Feb-19						
+L-008-08/1	Hsu, Yite		Biologend	19-Feb-19						
+L-008-08/1	Youle, Richard J.		Biologend	19-Feb-19						
+L-058-13/1	Hou, Jean		BioLegend	19-Feb-19						
+L-058-13/1	Major, Eugene O		BioLegend	19-Feb-19						
+L-058-13/1	Messam, Conrad A		BioLegend	19-Feb-19						
+L-214-94/0	Brann, (b) (6) Mark R		Panlabs, Inc.	20-Feb-19						
+L-214-94/0	Stormann, Thomas M.		Panlabs, Inc.	20-Feb-19						
+L-213-94/1	McVittie, Loris D.		Eurofins Panlabs	20-Feb-19						
+L-213-94/1	Monisma, Jr., Frederick J.		Eurofins Panlabs	20-Feb-19						
+L-213-94/1	Sibley, David R.		Eurofins Panlabs	20-Feb-19						
<i>Note: L-213-94/1 split between NIMH; NINDS</i>										
+L-217-14/1	NINDS		Medicenna Therapeutics, Inc.	27-Feb-19						
<i>Note: L-217-14/1 split between NCI; NINDS</i>										

NIH Patent Licensing Activities

NINDS
March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC	
+L-083-11/0	Bielekova, Bibiana B	(b)(4);	Abbott Biotherapeutics Corp.	1-Mar-19						(b) (3) (A), (b) (4), (b) (6)	
+L-083-11/0	Martin, Roland	(b)(6)	Abbott Biotherapeutics Corp.	1-Mar-19							
+L-083-11/0	McFarland, Henry F.		Abbott Biotherapeutics Corp.	1-Mar-19							
<i>Note: L-083-11/0 split between NCI; NINDS</i>											
+L-030-04/1	Hou, Jean		Medical and Biological Labs.	1-Mar-19							
+L-030-04/1	Major, Eugene O		Medical and Biological Labs.	1-Mar-19							
+L-030-04/1	Messam, Conrad A		Medical and Biological Labs.	1-Mar-19							
+L-091-15/0	Hsu, Yite		EMD Millipore Corp	1-Mar-19							
+L-091-15/0	Youle, Richard J.		EMD Millipore Corp	1-Mar-19							
+L-167-15/0	Blackstone, Craig D.		EMD Millipore Corp	1-Mar-19							
+L-167-15/0	Zhu, Peng-Peng		EMD Millipore Corp	1-Mar-19							
+L-264-14/0	Gainer, Harold		EMD Millipore Corporation	1-Mar-19							
+L-208-01/3	Hou, Jean		Millipore Sigma	1-Mar-19							
+L-208-01/3	Major, Eugene O		Millipore Sigma	1-Mar-19							
+L-208-01/3	Messam, Conrad A		Millipore Sigma	1-Mar-19							
+L-025-02/0	NINDS		Chemicon International Inc	1-Mar-19							
<i>Note: L-025-02/0 split between NEI; NINDS</i>											
+L-025-02/0	Schwartz, Joan P	(b)(4);	Chemicon International Inc	1-Mar-19							
+L-025-02/0	Sugita, Yukihiro	(b)(6)	Chemicon International Inc	1-Mar-19							
+L-025-02/0	Taniwaki, Takayuki		Chemicon International Inc	1-Mar-19							
<i>Note: L-025-02/0 split between NEI; NINDS</i>											
+L-309-02/2	Hou, Jean		Millipore Corp.	1-Mar-19							
+L-309-02/2	Major, Eugene O		Millipore Corp.	1-Mar-19							
+L-309-02/2	Messam, Conrad A		Millipore Corp.	1-Mar-19							
+L-182-04/2	Hou, Jean		Novus Biologicals Inc	5-Mar-19							
+L-182-04/2	Major, Eugene O		Novus Biologicals Inc	5-Mar-19							
+L-182-04/2	Messam, Conrad A		Novus Biologicals Inc	5-Mar-19							
+L-280-14/1	NINDS		Arche Opitex Biomedical, Inc.	13-Mar-19							
<i>Note: L-280-14/1 split between NICHD; NINDS</i>											
+L-012-01/1	Hsu, Yite	(b)(4);	NeoMarkers, Inc.	19-Mar-19							
+L-012-01/1	Youle, Richard J.	(b)(6)	NeoMarkers, Inc.	19-Mar-19							
+L-091-98/3	Hsu, Yite		NeoMarkers, Inc.	19-Mar-19							
+L-091-98/3	Youle, Richard J.		NeoMarkers, Inc.	19-Mar-19							
+L-208-01/3	Hou, Jean		Millipore Sigma	22-Mar-19							
+L-208-01/3	Major, Eugene O		Millipore Sigma	22-Mar-19							

+L-208-01/3	Messam, Conrad A	(b)(4); (b)(6)	Millipore Sigma	22-Mar-19	(b) (3) (A), (b) (4), (b) (6)
+L-025-02/0	NINDS		Chemicon International Inc	22-Mar-19	
<i>Note: L-025-02/0 split between NEI; NINDS</i>					
+L-025-02/0	Schwartz, Joan P	(b)(4);	Chemicon International Inc	22-Mar-19	
+L-025-02/0	Sugita, Yukihiko	(b)(6)	Chemicon International Inc	22-Mar-19	
+L-025-02/0	Taniwaki, Takayuki		Chemicon International Inc	22-Mar-19	
<i>Note: L-025-02/0 split between NEI; NINDS</i>					
+L-113-12/0	Grimaldi, Maurizio		KannaLife Sciences, Inc	26-Mar-19	
<i>Note: L-113-12/0 split between NIMH; NINDS</i>					
+L-302-14/0	Grimaldi, Maurizio		KannaLife Sciences, Inc.	26-Mar-19	
<i>Note: L-302-14/0 split between NIMH; NINDS</i>					

+ denotes a manual adjustment which has already been paid to the inventor

\$295 942 52	\$14 125 94	\$310 068.46	\$92 702.49	\$217 365 97
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NIH Patent Licensing Activities
NINR
October 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total October Income	License Cumulative Income	Inventor Awards October	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
November 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total November Income	License Cumulative Income	Inventor Awards November	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
December 2018

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total December Income	License Cumulative Income	Inventor Awards December	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
January 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total January Income	License Cumulative Income	Inventor Awards January	Net Remaining to IC
+L-079-17/0	Barr, Taura L.	(b)(4);	VuEssence, Inc.	16-Jan-19						(b) (3) (A), (b) (4), (b) (6)
+L-079-17/0	(b) (4)	(b)(6)	VuEssence, Inc.	16-Jan-19						

Note: L-079-17/0 split between NIA; NINDS; NINR

NIH Patent Licensing Activities
NINR
February 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total February Income	License Cumulative Income	Inventor Awards February	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
March 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total March Income	License Cumulative Income	Inventor Awards March	Net Remaining to IC
										(b) (3) (A), (b) (4), (b) (6)

+ denotes a manual adjustment which has already been paid to the inventor

National Institutes of Health

Office of Financial Management

Royalties Semiannual Report -- Payments due to Inventors by IC -- Period ending: September 2019

CC	\$11,004.99
Burnett, Christopher A.	(b) (3) (A), (b) (4), (b) (6)
Danthi, S. Narasimhan	
Gladwin, Mark T.	
Kwak, Jin Tae	
Li, King	
Summers, Ronald	
Wood, Bradford J	
Xu, Sheng	
CDC	\$103,938.73
Albarino, Cesar G.	(b) (3) (A), (b) (4), (b) (6)
Alisio, Carol H.	
Anderson, Burt E.	
Anderson, Larry J.	
Barclay, Leslie	
Beck, Eric T.	
Berman, LaShondra	
Bird, Brian H.	
Black, Charlotte M.	
Black, Jodi B.	
Chang, Gwong-Jen J.	
Chhabra, Preeti	
Cox, Nancy J.	
Damon, Inger K.	
Davis, Brent S.	
Dawson, Jacqueline E.	
Devos, Joshua R.	
Dietrich, EB Gabrielle	
Dolan, Marc C.	
Dong, Renguang	

Donis, Ruben O.
Emery, Shannon L.
Erdman, Dean D.
Freeman, Charlotte
Galland, Gale G.
Gentsch, Jon R.
Glass, Roger I.
Gregoricus, Nicole
Gubler, Duane J.
Guo, Zhu
Hanlon, Cathleen
Harmon, Maurice
Hart, John C.
Hierholzer, John C.
Jiang, Baoming
Katz, Jacqueline M.
Kendal, Alan P.
Kent, Rebekah J.
Khudyakov, Yury E
Kinney, Claire Huang
Kinney, Richard M.
Klimov, Alexander I.
Komar, Nicholas
Ksiazek, Thomas G.
Lewis, Daniel M.
Lindstrom, Stephen
Lopez, Carlos
Maher, Kaija
Mark W. Reimer
Maupin, Gary O.
McDougal, Steve
McDowell, Thomas
Moore, Deborah D.

(b) (3) (A), (b)
(4), (b) (6)

(b) (4)

(b) (6)

Nichol, Stuart T.
Pallansch, Mark A.
Panella, Nicholas A.
Parekh, Bharat S.
Pellett, Philip E.
Peret, Teresa C.
Phillips, Donald
Reid, Thomas M.
Roehrig, John T.
Rupprecht, Charles E.
Saluzzo, Jean-francious
Sanchez, Anthony
Schafer, Millie P.
Schmechel, Detlef
Shu, Bo
Smith, Jean S.

(b) (4)

Stevens, James
Stockdale, Carol
Tamin, Azibi
Thibodeaux, Brett A.
Tong, Suxiang
Tsou, Cecelia
Vinje, Jan
Wagar, Nicholas
Walls, Harriet
Wang, Yuhuan
Warren, Christopher
Wei, Xierong
Welcome, Daniel
Wells, Thomas
Wilson, Jason Ray
Winner, Bryan
Wu, Xianfu

(b) (3) (A), (b) (4), (b) (6)

Yager, Pamela	(b) (3) (A), (b) (4), (b) (6)
Yamamoto, Masahiro	
Yang, Chunfu (Dustin)	
York, Ian Arthur	
Zhou, Zhiyong	
CIT	\$0.00
FDA	\$6,911.69
Donnelly, Raymond P.	(b) (3) (A), (b) (4), (b) (6)
Falgout, Barry	
Markoff, Lewis	
Norcross, Michael	
NCATS	\$30,178.80
Alimardanov, Asaf R.	(b) (3) (A), (b) (4), (b) (6)
Austin, Christopher P.	
Behnke, Mark L.	
Inglese, James	
(b) (4)	
Liu, Ke	
Marugan, Juan J.	
McKew, John C.	
Morris, Patrick	
Southall, Noel T.	
Swaroop, Manju	
Thomas, Craig J.	
Titus, Steven	
Xiao, Jingbo	
Xu, Miao	
Zheng, Wei	
NCI	\$6,599,438.36
Aaronson, Stuart A.	(b) (3) (A), (b) (4), (b) (6)
Afonin, Kirill	
Austin, Faye C.	
Baba, Masaya	
Bagni- Beyer, Rachel K.	

Barry, Todd
Baskar, Sivasubramanian
Bindewald, Eckart
Bonner, William M
Bonomi, Carrie A.
Borgel, Suzanne D.

(b) (4)

Brechbiel, Martin W.
Buck, Christopher
Burgess, Rebecca C.
Bustin, Michael
Cafri, Gal

(b) (4)

Chang, Kai
Chang, Nancy T.
Cheng, Sheue-Yann
Chiang, Peter K.
Chowdhury, Partha S
Choyke, Peter L
Colcher, David
Copeland, Neal
Costantino, Nina
Court, Donald
Crowl, Robert
Datta, Simanti
Day, Patricia
Deniger, Drew
Dimitrov, Dimiter S.
Doroshov, James H.
Dougherty, Kelly
Dudley, Mark
Ellis, Hilary Moyed
Esposito, Dominic
Feldman, Steven A

(b) (3) (A), (b) (4),
(b) (6)

Feng, Mingqian
Feng, Yang
Finch, Paul W.
Fisher, Amanda G.
Fitzgerald, David J.
Fitzgerald, Peter C.
Fleming, Bryan
Franchini, Genoveffa
Gao, Wei
Garmestani, Kayhan
Gazdar, Adi F.
Gelboin, (b) (6) Harry
(b) (4)
(b) (4)
Gillette, William K.
Gonzalez, Frank J
Gottesman, Michael M.
Green, Jeffrey E
Greenstone, Heather L.
Grose, Carissa L.
Hahn, Beatrice
Hamilton, Thomas C
Hanada, Kenichi
Hand, Patricia H
Hathcock, Karen
Ho, Mitchell
Hodes, Richard
Hodge, James W.
Holderfield, Matthew T.
Hollingshead, Melinda G.
Hong, Jessica
Hopkins, Ralph F.
Howley, Peter M.

(b) (3) (A), (b) (4), (b)
(6)

(b) (4)

Isenberg, Jeffrey

(b) (4)

Jelinek, Ivett

Jenkins Copeland, Nancy A

(b) (4)

Johnson, Bruce E

Kahn, Richard A

Kalyanaraman, Vaniambadi S.

Kashmiri, (b) (6) Syed

Kawakami, Yutaka

Kaye, Frederic J

Keseling, Beverly G

Kheif, Samir N.

Khleif, Samir N.

Kim, Heungnam

Kinders, Robert

King, Charles R.

Kirnbauer, Reinhard

Kochenderfer, James N

Kraus, (b) (6) Matthias

Krausz, Kristopher W.

Lacal, Juan C.

Lalani, Almin

Laszlo, Gloria

Lee, E-Chiang

Lee, Susanna Sau-Tuen

Li, Nan

Liotta, Lance

Liu, Pentao

Lo, Winifred Margaret

Lowy, Douglas R.

Lu, Yong-Chen

Lu, Yong-Chen W.

Malekzadeh, Parisa

(b) (3) (A), (b) (4), (b)
(6)

Markham, Phillip D.
Marquez, Victor E
Marrero, Allison M.
Martins, Angelica
Mason, Llewellyn H.
Maxhimer, Justin B
Miller, Valerie
Minna, John D.
Misteli, Thomas
Morgan, Richard A.
Muchmore, Brian P.
Navas, Mario Antonio
Nickerson, Michael L.
Nuti, Marianna
O'Brien, Thomas R
Oie, Herbert K
Onda, Masanori
Ortaldo, John R.
Ozols, Robert F
Parchment, Ralph E.
Parkhurst, Maria
Parlea, Lorena
Pasetto, Anna
Pass, Harvey I.
Pastrana, Diana V
Peng, Bo
Pfister, Thomas D.
Phung, Yen T.
Pinto, Peter A
Popovic, Mikulas
Porter-Gill, Patricia A.
Prokunina-Olsson, Ludmila
Rader, Christoph
Radmacher, Michael D

(b) (3) (A), (b) (4),
(b) (6)

Reddy, E. Premkumar.
Rhim, Johng S.
Robbins, Paul F
Robert-Guroff, Marjorie
Roberts, David D.
Roberts, (b) (6) Anita
Roberts, Jeffrey
Roberts, Veronica Ann
Roden, Richard B
Rogakou, Efthimia P
Rosenberg, Steven A.
Rosenwald, Andreas
Roukos, Vasileios
Rubin, Jeffrey S
Salahuddin, Syed Z.
Sarngadharan, Mangalasseril
Sawitzke, James
Schiller, John T
Schlom, Jeffrey
Schmidt, Laura S.
Segal, David M.
Shapiro, Bruce
Sharan, Shyam K
Sharma, Nirmala D
Shaw, George M
Simon, Richard
Soppet, Dan
Soutoglou, Evi
Sporn, Michael B.
Srivastava, Apurva
Staudt, Louis M
Steeg, Patricia S.
Stephens, Robert M.
Swaminathan, Srividya

(b) (3) (A), (b) (4), (b)
(6)

Tang, Zhewei

Tran, Eric

Turkbey, Ismail B.

Ueda, Kazumitsu

(b) (4)

(b) (4)

Viard, Mathias

Vishnuvajjala, B. Rao

Voltan, Rebecca

Waldmann, Thomas A.

Wang, Qiong

Wang, Xin Wei

Wang, Yan

Warfield, Paul

Warming, Soren

Warren, Michelle B.

(b) (4)

Wiestner, Adrian

Willingham, Mark C.

Wilson, Wyndham H.

Yang, James C

Yoseph, Rami

Yu, Daiguan

Yu, Zhiya

Zbar, Berton

Zhang, Yifan

Zhao, Chihao

Zheng, Zhili

NHGRI

Chandler, Randy J.

Manoli, Eirini

Pavan, William J

Smith, Stephanie N.

Venditti, Charles P.

(b) (3) (A), (b) (4), (b)
(6)

\$31,281.17

(b) (3) (A), (b) (4),
(b) (6)

NHLBI

\$117,192.01

Aletras, Anthony Homer

Berra, Lorenzo

Boehm, Manfred

Cannon, Richard O.

Chen, Guibin

Chiorini, John A.

Combs, Christian A.

Derbyshire, John Andrew

Ding, Chuan-Tian

Ding, Chuantian

Gladwin, Mark T.

Haque, Nazmul

Hogg, John Robert

Hunter, Christian J

(b) (4)

Kellman, Peter

Kolobow, Theodor

Kotin, Robert M.

Larochelle, Andre

Leonard, Warren J.

Lin, Jian-Xin

(b) (4)

(b) (4)

McVeigh, Elliott R

Nezafat, Reza

Nirenberg, (b) (6) Marshall

Smith, Richard H.

(b) (4)

(b) (4)

Urabe, Masashi

(b) (4)

Walsh, Frank

Wen, Han

(b) (3) (A), (b) (4),
(b) (6)

NIA

Matarin Jimenez, Maria Del Mar

Moaddel, Ruin

Pitha, Josef

Singleton, Andrew B.

NIAAA

Kunos, George I

Veech, Richard L.

NIAID

Adachi, Akio

Akahata, Wataru

Akin, Cem

Baxa, Ulrich

Beeler, Judy A.

Benn, Steven I

Birmingham, Alison

Biacchesi, Stephanie

Blaney, Jr., Joseph E

Boyd, Lisa

Boyington, Jeffrey C.

Buchholz, Ursula

Bukreyev, Alexander

Caldwell, Harlan D

Chakrabarti, Bimal K

Chanock, (b) (6) Robert

Chen, Lei

Chen, Man

Cheng, Cheng

Cheung, Yiu Chong Gordon

Chuang, Gwo-Yu

Coelingh, Kathleen L.

Collins, Peter L.

Conrad, John T.

De Wit, Emmie

\$33,153.14

(b) (3) (A), (b) (4), (b) (6)

(b) (3) (A), (b) (4), (b) (6)

\$471,853.94

(b) (3) (A), (b) (4), (b) (6)

DeBuysscher, Blair Lynn
Druz, Aliksandr A.
Eisenbarth, (b) (6) George
Emerson, Suzanne U.
(b) (6) Clement K. Asiedu
fFldmann, Heinrich Ulrich
Fink, Doran
Folks, Thomas M
Galen, Joseph Van
Georgiev, Ivelin S.
Gorman, Jason
Graham, Barney S.
Green, Kim Y.
Gupta, Pradeep K.
Hanley, Kathryn
Harriman, Gregory R.
Hoshino, Yasutaka
Hsu, Su-Cheng Dana
Hu, Haijing
Huang, (b) (6) Yue
Jeang, (b) (6) Kuan-Teh
Joyce, Michael G.
Kalinina, Olga V.
Kanekiyo, Masaru
Kapikian, (b) (6) Albert Z
Kirshenbaum, Arnold
Kong, Wing-pui
Kubofcik, Joseph
Kunimoto, Dennis Y.
Kwong, Peter D.
Lai, Ching-Juh
Leonard, John M.
Leppla, Stephen H.
Leysath, Clinton E.

(b) (3) (A), (b) (4), (b)
(6)

Liang, Bo
Lujan, Hugo D
Luongo, Cindy L.
Mackett, Michael
Margulies, David H
Martin, Malcolm A
Marzi, Andrea Maria
Mascola, John R.
McCarty, Thomas Charles
McLellan, Jason Scott
Merritt, Joshua S.
Metcalf, Dean D
Moayeri, Mahtab
Morrison, Richard P.
Moss, Bernard
Mowatt, Michael
Munir, Shirin
Murphy, Brian R.
Nabel, Gary J
Nash, Theodore
Natarajan, Kannan
Nguyen, Hanh T.
Nutman, Thomas B.
Nutt, Anne S.
OFEK, GILAD A
Ohara, Junichi
Ohta, Akio
Ou, Li
Pancera, Marie L.
Paul, (b) (6) William E.
Pomerantsev, Andrei P
Powell, Douglas M
Prescott, Joseph
Purcell, Robert H

(b) (3) (A), (b) (4), (b)
(6)

Rabson, Arnold B.

Rao, Srinivas

(b) (4)

(b) (4)

Rundlet, Emily

Rutledge, Rosamond A.

Sastry, Mallika

Schwartz, Richard M.

Shukla Bajpai, Priyanka

Siebenlist, Ulrich

Silver, Jonathan E.

Sitkovsky, Michail V.

Skiadopoulos, Mario

Smith, Geoffrey L

Sosnovtsev, Stanislav V

Soto, Cinque

Srivatsan, Sanjay R.

(b) (4)

Stewart-Jones, Guillaume BE

Strober, Warren

Sullivan, Nancy J

Sun, Peter D

Theodore, (b) (6) Theodore S

Thomas, Paul V.

Tilahun, Muluaelem

Tsybovsky, Yaroslav

Whitehead, Stephen S.

Willey, Ronald L.

Xu, Kai

YANG, YONGPING

Yang, Zhi-Yong

Zhang, Baoshan

Zhou, Tongqing

Zou, Zhongcheng

(b) (3) (A), (b) (4),
(b) (6)

NIAMS

Kinet, Jean-Pierre
Meylan, Francoise
Rao, Mahendra S
Siegel, Richard
Song, Yun-Jeong

\$8,952.82

(b) (3) (A), (b)
(4), (b) (6)

NIBIB

Chen, Xiaoyuan
Parekh, Sapun
Shroff, Hari
Weiss, Orit Jacobson
York, Andrew G.

\$13,343.60

(b) (3) (A), (b)
(4), (b) (6)

NICHD

Blithe, Diana L.
Crouch, Robert J.
Gandjbakhche, Amir H

\$13,892.88

(b) (3) (A), (b)
(4), (b) (6)

(b) (4)

Klein, David C.
Moffett, John R
Namboodiri, Aryan M
Nieman, Lynnette K.
Ozato Dawid, Keiko
Riley, Jason D.
Romero, Roberto
Roseboom, Patrick
Weller, Joan

NIDA

Cao, Jianjing
Conejero-Goldberg, Concha
Cyriac, George C.
Dillion-Carter, Ora
Freed, William
Giordano, Magda
Grundt, Peter

\$931.32

(b) (3) (A), (b)
(4), (b) (6)

Kumar, Vivek
Newman, Amy H.
Shaik, Anerbasha
Truckenmiller, Mary Ellen

(b) (4)

Wise, Roy A
Zangen, Abraham

NIDCD

Drayna, Dennis T.
Kim, Un-kyung

RJ Wenthold, (b) (6)

(b) (4)

NIDCR

Akiyama, Steven
Burbelo, Peter D.
Chiorini, John A.
Kaludov, Nikola
Keith, Jerry M
Kleinman, Hynda
Kulkarni, Ashok
Leppla, Stephen H.
Malinda, Katherine M
Merkel, Todd J.
Ohshima, Toshio
Siraganian, Reuben
Yamada, Kenneth
Yamada, Susan Sleeper
Yang, Xiaoming

NIDDK

Daly, (b) (6) John W
Gershengorn, Marvin
Huang, Wei
Jacobson, Kenneth A
Kopp, Jeffrey B

(b) (3) (A), (b)
(4), (b) (6)

\$7,803.22

(b) (3) (A), (b)
(4), (b) (6)

\$38,724.31

(b) (3) (A), (b)
(4), (b) (6)

\$14,945.88

(b) (3) (A), (b)
(4), (b) (6)

Neumann, Susanne
Oral, Elif A.
Padlan, Eduardo
Proia, Richard L
Raaka, Bruce
Sakairi, Toru
Sauer, Brian
Schechter, Alan N.
Taylor, Simeon
Tosh, Dilip K.

NIEHS

(b) (3) (A), (b)
(4), (b) (6)

\$13,543.24

Beckley, Amy J.
Cidlowski, John A.
Copeland, William
Eddy, Edward
Kasiviswanathan, Rajesh
Lim, Susan E.
Mishina, Yuji
Ray, Manas K.
Scott, Gregory J.

(b) (3) (A), (b)
(4), (b) (6)

NIMH

\$127,461.03

Cohen, Robert M.
Eiden, Maribeth V.
Ginns, Edward I.
Hu, Huaizhong
LaMarca, Mary
Liu, Yuan Yi
Ma, Shenglin
Manji, Hussein K.
Neville, David
Scharff, Joshua
Thompson, Jerry

(b) (3) (A), (b) (4),
(b) (6)

(b) (4)
Wilson, Carolyn A.

(b) (4)

Woo, Jung-Hee

Ye, Daniel

Zarate, Carlos A.

NINDS

Amyot, Franck

Bankiewicz, Krystof S.

Bielekova, Bibiana B

Brady, (b) (6) Roscoe O

Hallett, Mark

Hou, Jean

Hsu, Yite

Lonser, Russell R

Major, Eugene O

Martin, Roland

McFarland, Henry F.

Messam, Conrad A

Miranda, Pedro

Murray, Gary J

Oldfield, (b) (6) Edward H.

Pluta, Ryszard M

Roth, Yiftach

Warach, Steven J.

Wasserman, Eric M.

Youle, Richard J.

NINR

Barr, Taura L.

(b) (4)

(b) (3) (A), (b)
(4), (b) (6)

\$19,187.73

(b) (3) (A), (b)

(4), (b) (6)

(b) (3) (A), (b) (4),
(b) (6)

NIH Patent Licensing Activities
CC
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-160-18/0	Burnett, Christopher A.	(b)(4);	Advanced Imaging Projects, LLC (AIP)	22-Apr-19						(b) (3) (A), (b) (4), (b) (6)
+L-160-18/0	Danthi, S. Narasimhan	(b)(6)	Advanced Imaging Projects, LLC (AIP)	22-Apr-19						
L-160-18/0	Li, King		Advanced Imaging Projects, LLC (AIP)	22-Apr-19						

NIH Patent Licensing Activities
CC
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-160-18/0	Burnett, Christopher A.	(b)(4);	Advanced Imaging Projects, LLC (AIP)	12-May-19						(b) (3) (A), (b) (4), (b) (6)
+L-160-18/0	Danthi, S. Narasimhan	(b)(6)	Advanced Imaging Projects, LLC (AIP)	12-May-19						
L-160-18/0	Li, King		Advanced Imaging Projects, LLC (AIP)	12-May-19						

NIH Patent Licensing Activities
CC
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-145-19/0	Gladwin, Mark T.	(b)(4);	Globin Solutions, Inc	13-Jun-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-145-19/0 split between CC; NHLBI; NIDDK; NINDS</i>										
+L-028-18/1	CC		Scanmed LLC	24-Jun-19						
<i>Note: L-028-18/1 split between CC; CIT; NCI</i>										

NIH Patent Licensing Activities
CC
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-160-18/0	CC		Advanced Imaging Projects, LLC (AIP)	8-Jul-19						(b) (3) (A), (b) (4), (b) (6)
+L-160-18/0	Burnett, Christopher A.	(b)(4);	Advanced Imaging Projects, LLC (AIP)	8-Jul-19						
+L-160-18/0	Danthi, S. Narasimhan	(b)(6)	Advanced Imaging Projects, LLC (AIP)	8-Jul-19						
L-160-18/0	Li, King		Advanced Imaging Projects, LLC (AIP)	8-Jul-19						

NIH Patent Licensing Activities

CC
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-160-18/0	CC		Advanced Imaging Projects, LLC (AIP)	23-Aug-19						(b) (3) (A), (b) (4), (b) (6)
+L-122-17/0	Kwak, Jin Tae	(b)(4);	Koninklijke Philips N.V.	29-Aug-19						
+L-122-17/0	Summers, Ronald	(b)(6)	Koninklijke Philips N.V.	29-Aug-19						
+L-122-17/0	Wood, Bradford J		Koninklijke Philips N.V.	29-Aug-19						
+L-122-17/0	Xu, Sheng		Koninklijke Philips N.V.	29-Aug-19						

Note: L-122-17/0 split between CC; NCI

NIH Patent Licensing Activities

CC
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-240-17/0	CC		United Therapeutics Corporation	4-Sep-19						(b) (3) (A), (b) (4)

Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS

\$51,689.36	\$22,533.78	\$74,223.14	\$11,004.99	\$63,218.15
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 CDC
 April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License	Inventor Awards April	Net Remaining to IC
								Cumulative Income		
L-093-05/4	CDC		Crucell Holland BV	1-Apr-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-093-05/4 split between CDC; NIAID</i>										
L-134-14/1	Anderson, Larry J.	(b)(4);	Millipore Corporation	1-Apr-19						
L-134-14/1	Hierholzer, John C.	(b)(6)	Millipore Corporation	1-Apr-19						
L-134-14/1	Tsou, Cecelia		Millipore Corporation	1-Apr-19						
L-144-13/0	Kent, Rebekah J.		BioQuip Products	1-Apr-19						
L-144-13/0	Komar, Nicholas		BioQuip Products	1-Apr-19						
L-144-13/0	Panella, Nicholas A.		BioQuip Products	1-Apr-19						
L-026-18/0	Anderson, Burt E.		ID-FISH Technology, Inc	3-Apr-19						
L-026-18/0	Dawson, Jacqueline E.		ID-FISH Technology, Inc	3-Apr-19						
L-050-19/0	CDC		Fuller Laboratories	3-Apr-19						
L-116-14/1	CDC		ZeptoMetrix Corp	4-Apr-19						
L-357-14/1	CDC		ZeptoMetrix Corp.	4-Apr-19						
L-015-14/0	McDougal, Steve	(b)(4);	Columbia University	8-Apr-19						
L-247-18/0	Khudyakov, Yury E	(b)(6)	RPC Diagnostic Systems, Ltd	10-Apr-19						
L-140-14/1	Anderson, Larry J.		EMD Millipore Corporation	10-Apr-19						
L-140-14/1	Erdman, Dean D.		EMD Millipore Corporation	10-Apr-19						
L-140-14/1	Hart, John C.		EMD Millipore Corporation	10-Apr-19						
L-140-14/1	Peret, Teresa C.		EMD Millipore Corporation	10-Apr-19						
L-160-14/1	Harmon, Maurice		Millipore Corp.	10-Apr-19						
L-160-14/1	Kendal, Alan P.		Millipore Corp.	10-Apr-19						
L-160-14/1	Stockdale, Carol		Millipore Corp.	10-Apr-19						
L-160-14/1	Walls, Harriet		Millipore Corp.	10-Apr-19						
L-136-14/2	Roehrig, John T.		Millipore Corporation	10-Apr-19						
L-140-14/1	Anderson, Larry J.		EMD Millipore Corporation	10-Apr-19						
L-140-14/1	Erdman, Dean D.		EMD Millipore Corporation	10-Apr-19						
L-140-14/1	Hart, John C.		EMD Millipore Corporation	10-Apr-19						
L-140-14/1	Peret, Teresa C.		EMD Millipore Corporation	10-Apr-19						
L-150-14/1	Maher, Kaija		EMD Millipore Corporation	10-Apr-19						
L-150-14/1	Pallansch, Mark A.		EMD Millipore Corporation	10-Apr-19						
L-160-14/1	Harmon, Maurice		Millipore Corp.	10-Apr-19						
L-160-14/1	Kendal, Alan P.		Millipore Corp.	10-Apr-19						
L-160-14/1	Stockdale, Carol		Millipore Corp.	10-Apr-19						
L-160-14/1	Walls, Harriet		Millipore Corp.	10-Apr-19						
L-155-14/1	Freeman, Charlotte		Millipore Corp.	10-Apr-19						
L-155-14/1	Pallansch, Mark A.		Millipore Corp.	10-Apr-19						

(b) (3) (A), (b) (4), (b) (6)

L-154-14/1	Black, Jodi B.	(b)(4);	Millipore Corporation	10-Apr-19
L-154-14/1	Lopez, Carlos	(b)(6)	Millipore Corporation	10-Apr-19
L-154-14/1	Pellett, Philip E.		Millipore Corporation	10-Apr-19
L-154-14/1	Yamamoto, Masahiro		Millipore Corporation	10-Apr-19
L-150-14/1	Maher, Kaija		EMD Millipore Corporation	10-Apr-19
L-150-14/1	Pallansch, Mark A.		EMD Millipore Corporation	10-Apr-19
L-148-19/0	Erdman, Dean D.		ZeptoMetrix Corporation	12-Apr-19
L-148-19/0	Tamin, Azibi		ZeptoMetrix Corporation	12-Apr-19
L-148-19/0	Tong, Suxiang		ZeptoMetrix Corporation	12-Apr-19
L-065-19/0	CDC		DiaSorin Molecular LLC	15-Apr-19
L-129-13/0	Reid, Thomas M.	(b)(4);	Aerotech Laboratories, Inc.	16-Apr-19
L-129-13/0	Schafer, Millie P.	(b)(6)	Aerotech Laboratories, Inc.	16-Apr-19
L-095-16/1	CDC		Merck Sharp & Dohme	17-Apr-19
L-133-14/1	Alisio, Carol H.	(b)(4);	Cedarlane Laboratories, LTD	17-Apr-19
L-133-14/1	Black, Charlotte M.	(b)(6)	Cedarlane Laboratories, LTD	17-Apr-19
L-133-14/1	Galland, Gale G.		Cedarlane Laboratories, LTD	17-Apr-19
L-133-14/1	Mark W. Reimer (b)(6)		Cedarlane Laboratories, LTD	17-Apr-19
L-133-14/1	Moore, Deborah D.		Cedarlane Laboratories, LTD	17-Apr-19
L-133-14/1	Phillips, Donald		Cedarlane Laboratories, LTD	17-Apr-19
L-133-14/1	Wells, Thomas		Cedarlane Laboratories, LTD	17-Apr-19
L-180-13/4	Chang, Gwong-Jen J.	(b)(4);	InBios International, Inc.	18-Apr-19
L-094-19/0	Dong, Renguang	(b)(6)	Guangzhou GongLe Technology Co. Ltd.	19-Apr-19
L-094-19/0	McDowell, Thomas		Guangzhou GongLe Technology Co. Ltd.	19-Apr-19
L-094-19/0	Warren, Christopher		Guangzhou GongLe Technology Co. Ltd.	19-Apr-19
L-094-19/0	Welcome, Daniel		Guangzhou GongLe Technology Co. Ltd.	19-Apr-19
L-094-19/0	Winner, Bryan		Guangzhou GongLe Technology Co. Ltd.	19-Apr-19
L-094-19/0	Dong, Renguang		Guangzhou GongLe Technology Co. Ltd.	19-Apr-19
L-094-19/0	McDowell, Thomas		Guangzhou GongLe Technology Co. Ltd.	19-Apr-19
L-094-19/0	Warren, Christopher		Guangzhou GongLe Technology Co. Ltd.	19-Apr-19
L-094-19/0	Welcome, Daniel		Guangzhou GongLe Technology Co. Ltd.	19-Apr-19
L-094-19/0	Winner, Bryan		Guangzhou GongLe Technology Co. Ltd.	19-Apr-19
L-195-14/0	Beck, Eric T.		CTK Biotech, Inc.	23-Apr-19
L-195-14/0	Kinney, Claire Huang		CTK Biotech, Inc.	23-Apr-19
L-195-14/0	Kinney, Richard M.		CTK Biotech, Inc.	23-Apr-19
L-195-14/0	Beck, Eric T.		CTK Biotech, Inc.	23-Apr-19
L-195-14/0	Kinney, Claire Huang		CTK Biotech, Inc.	23-Apr-19
L-195-14/0	Kinney, Richard M.		CTK Biotech, Inc.	23-Apr-19

NIH Patent Licensing Activities
CDC
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-247-18/0	Khudyakov, Yury E	(b)(4);	RPC Diagnostic Systems, Ltd	1-May-19						(b) (3) (A), (b) (4), (b) (6)

L-126-15/1	Sanchez, Anthony <i>Note: L-126-15/1 split between CDC; NIAID</i>	(b)(4); (b)(6)	GlaxoSmithKline Biologicals, S.A.	2-May-19
L-160-14/1	Harmon, Maurice		Millipore Corp.	2-May-19
L-160-14/1	Kendal, Alan P.		Millipore Corp.	2-May-19
L-160-14/1	Stockdale, Carol		Millipore Corp.	2-May-19
L-160-14/1	Walls, Harriet		Millipore Corp.	2-May-19
L-155-14/1	Freeman, Charlotte		Millipore Corp.	2-May-19
L-155-14/1	Pallansch, Mark A.		Millipore Corp.	2-May-19
L-150-14/1	Maher, Kaija		EMD Millipore Corporation	2-May-19
L-150-14/1	Pallansch, Mark A.		EMD Millipore Corporation	2-May-19
L-127-19/0	CDC		ZeptoMetrix Corporation	6-May-19
L-225-17/0	Chang, Gwong-Jen J.		InBios International, Inc.	9-May-19
L-225-17/0	Davis, Brent S.		InBios International, Inc.	9-May-19
L-225-17/0	Roehrig, John T.		InBios International, Inc.	9-May-19
L-225-17/0	Thibodeaux, Brett A.		InBios International, Inc.	9-May-19
L-148-19/0	Erdman, Dean D.		ZeptoMetrix Corporation	10-May-19
L-148-19/0	Tamin, Azibi		ZeptoMetrix Corporation	10-May-19
L-148-19/0	Tong, Suxiang		ZeptoMetrix Corporation	10-May-19
L-126-16/0	Dietrich, EB Gabrielle		Evolve Inc.	14-May-19
L-126-16/0	Dolan, Marc C.		Evolve Inc.	14-May-19
L-126-16/0	Maupin, Gary O.		Evolve Inc.	14-May-19
L-126-16/0	Panella, Nicholas A.		Evolve Inc.	14-May-19
L-126-16/0	(b) (4)		Evolve Inc.	14-May-19
L-126-16/0	CDC		Evolve Inc.	14-May-19
L-101-17/0	Devos, Joshua R.	(b)(4);	Life Technologies Corporation	14-May-19
L-101-17/0	Wagar, Nicholas	(b)(6)	Life Technologies Corporation	14-May-19
L-101-17/0	Yang, Chunfu (Dustin)		Life Technologies Corporation	14-May-19
L-101-17/0	Zhou, Zhiyong		Life Technologies Corporation	14-May-19
L-235-13/0	Berman, LaShondra		Life Technologies Corp.	14-May-19
L-235-13/0	Emery, Shannon L.		Life Technologies Corp.	14-May-19
L-235-13/0	Lindstrom, Stephen		Life Technologies Corp.	14-May-19
L-235-13/0	Shu, Bo		Life Technologies Corp.	14-May-19
L-235-13/0	Berman, LaShondra		Life Technologies Corp.	14-May-19
L-235-13/0	Emery, Shannon L.		Life Technologies Corp.	14-May-19
L-235-13/0	Lindstrom, Stephen		Life Technologies Corp.	14-May-19
L-235-13/0	Shu, Bo		Life Technologies Corp.	14-May-19
L-137-14/0	Alisio, Carol H.		eBioscience, Inc.	14-May-19
L-137-14/0	Black, Charlotte M.		eBioscience, Inc.	14-May-19
L-137-14/0	Galland, Gale G.		eBioscience, Inc.	14-May-19
L-137-14/0	Mark W. Reimer (b) (6)		eBioscience, Inc.	14-May-19
L-137-14/0	Moore, Deborah D.		eBioscience, Inc.	14-May-19
L-137-14/0	Phillips, Donald		eBioscience, Inc.	14-May-19
L-137-14/0	Wells, Thomas		eBioscience, Inc.	14-May-19
L-005-14/2	CDC		Trellis Bioscience	16-May-19

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
 CDC
 June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License	Inventor Awards June	Net Remaining to IC
								Cumulative Income		
L-205-13/1	Cox, Nancy J.	(b)(4):	University of Florida Research Foundatio	4-Jun-19						(b) (3) (A), (b) (4), (b) (6)
L-205-13/1	Donis, Ruben O.	(b)(6)	University of Florida Research Foundatio	4-Jun-19						
L-205-13/1	Katz, Jacqueline M.		University of Florida Research Foundatio	4-Jun-19						
L-205-13/1	Klimov, Alexander I.		University of Florida Research Foundatio	4-Jun-19						
L-223-13/4	Gubler, Duane J.		Takeda Vaccines	6-Jun-19						
L-223-13/4	Kinney, Claire Huang		Takeda Vaccines	6-Jun-19						
L-223-13/4	Kinney, Richard M.		Takeda Vaccines	6-Jun-19						
L-223-13/4	(b) (4)		Takeda Vaccines	6-Jun-19						
L-009-19/0	Guo, Zhu		InDevR, Inc.	6-Jun-19						
L-009-19/0	Stevens, James		InDevR, Inc.	6-Jun-19						
L-009-19/0	Wilson, Jason Ray		InDevR, Inc.	6-Jun-19						
L-009-19/0	York, Ian Arthur		InDevR, Inc.	6-Jun-19						
L-009-19/0	Guo, Zhu		InDevR, Inc.	6-Jun-19						
L-009-19/0	Stevens, James		InDevR, Inc.	6-Jun-19						
L-009-19/0	Wilson, Jason Ray		InDevR, Inc.	6-Jun-19						
L-009-19/0	York, Ian Arthur		InDevR, Inc.	6-Jun-19						
L-147-13/0	McDougal, Steve		Beijing Kinghawk Pharma	11-Jun-19						
L-147-13/0	Parekh, Bharat S.		Beijing Kinghawk Pharma	11-Jun-19						
L-147-13/0	Wei, Xierong		Beijing Kinghawk Pharma	11-Jun-19						
L-203-14/0	Albarino, Cesar G.		Merial Limited	20-Jun-19						
L-203-14/0	Bird, Brian H.		Merial Limited	20-Jun-19						
L-203-14/0	Ksiazek, Thomas G.		Merial Limited	20-Jun-19						
L-203-14/0	Nichol, Stuart T.		Merial Limited	20-Jun-19						
L-005-14/2	CDC		Trellis Bioscience	26-Jun-19						
L-186-13/5	Chang, Gwong-Jen J.	(b)(4):	Focus Diagnostics, Inc.	26-Jun-19						
L-186-13/5	Roehrig, John T.	(b)(6)	Focus Diagnostics, Inc.	26-Jun-19						

NIH Patent Licensing Activities
 CDC
 July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License	Inventor Awards July	Net Remaining to IC
								Cumulative Income		
L-252-13/3	Barclay, Leslie	(b)(4):	R-Biopharm AG	2-Jul-19						(b) (3) (A), (b) (4), (b) (6)
L-252-13/3	Chhabra, Preeti	(b)(6)	R-Biopharm AG	2-Jul-19						
L-252-13/3	Gregoricus, Nicole		R-Biopharm AG	2-Jul-19						
L-252-13/3	Vinje, Jan		R-Biopharm AG	2-Jul-19						
*L-142-13/0	Lewis, Daniel M.		Advnt Blotechnologies, L.L.C.	5-Jul-19						
*L-142-13/0	Schmechel, Detlef		Advnt Blotechnologies, L.L.C.	5-Jul-19						
*L-195-14/0	Beck, Eric T.		CTK Biotech, Inc.	19-Jul-19						
*L-195-14/0	Kinney, Claire Huang		CTK Biotech, Inc.	19-Jul-19						

*L-195-14/0	Kinney, Richard M.	(b)(4); (b)(6)	CTK Biotech, Inc.	19-Jul-19
*L-195-17/0	Damon, Inger K.		Ethiopian Public Health Institute	26-Jul-19
*L-195-17/0	Hanlon, Cathleen		Ethiopian Public Health Institute	26-Jul-19
*L-195-17/0	Wu, Xianfu		Ethiopian Public Health Institute	26-Jul-19

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
 CDC
 August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License	Inventor Awards August	Net Remaining to IC
								Cumulative Income		
L-074-18/0	Roehrig, John T.	(b)(4);	Millipore Sigma	1-Aug-19						(b) (3) (A), (b) (4), (b) (6)
L-074-18/0	Thibodeaux, Brett A.	(b)(6)	Millipore Sigma	1-Aug-19						
L-186-13/6	Chang, Gwong-Jen J.		DiaSorin Molecular	5-Aug-19						
L-186-13/6	Roehrig, John T.		DiaSorin Molecular	5-Aug-19						
L-227-13/0	CDC		Sanitas Inc.	15-Aug-19						
L-146-13/0	Gentsch, Jon R.	(b)(4);	Biological E. Ltd.	16-Aug-19						
L-146-13/0	Glass, Roger I.	(b)(6)	Biological E. Ltd.	16-Aug-19						
L-146-13/0	Jiang, Baoming		Biological E. Ltd.	16-Aug-19						
L-146-13/0	Saluzzo, Jean-francious		Biological E. Ltd.	16-Aug-19						
L-146-13/0	Wang, Yuhuan		Biological E. Ltd.	16-Aug-19						
L-101-17/0	Devos, Joshua R.		Life Technologies Corporation	20-Aug-19						
L-101-17/0	Wagar, Nicholas		Life Technologies Corporation	20-Aug-19						
L-101-17/0	Yang, Chunfu (Dustin)		Life Technologies Corporation	20-Aug-19						
L-101-17/0	Zhou, Zhiyong		Life Technologies Corporation	20-Aug-19						
L-247-18/0	Khudyakov, Yury E		RPC Diagnostic Systems, Ltd	27-Aug-19						
L-160-14/1	Harmon, Maurice		Millipore Corp.	27-Aug-19						
L-160-14/1	Kendal, Alan P.		Millipore Corp.	27-Aug-19						
L-160-14/1	Stockdale, Carol		Millipore Corp.	27-Aug-19						
L-160-14/1	Walls, Harriet		Millipore Corp.	27-Aug-19						
L-141-14/3	Rupprecht, Charles E.		Millipore Corporation	27-Aug-19						
L-141-14/3	Smith, Jean S.		Millipore Corporation	27-Aug-19						
L-141-14/3	Yager, Pamela		Millipore Corporation	27-Aug-19						
L-150-14/1	Maher, Kaija		EMD Millipore Corporation	27-Aug-19						
L-150-14/1	Pallansch, Mark A.		EMD Millipore Corporation	27-Aug-19						
L-155-14/1	Freeman, Charlotte		Millipore Corp.	27-Aug-19						
L-155-14/1	Pallansch, Mark A.		Millipore Corp.	27-Aug-19						
L-241-17/0	CDC		ZeptoMetrix Corporation	27-Aug-19						
L-146-13/0	CDC		Biological E. Ltd.	28-Aug-19						
L-146-13/0	Gentsch, Jon R.	(b)(4);	Biological E. Ltd.	28-Aug-19						
L-146-13/0	Glass, Roger I.	(b)(6)	Biological E. Ltd.	28-Aug-19						
L-146-13/0	Jiang, Baoming		Biological E. Ltd.	28-Aug-19						
L-146-13/0	Saluzzo, Jean-francious		Biological E. Ltd.	28-Aug-19						
L-146-13/0	Wang, Yuhuan		Biological E. Ltd.	28-Aug-19						

(b) (3) (A), (b) (4)

L-112-14/0 CDC

Biological E. Ltd.

28-Aug-19

NIH Patent Licensing Activities
CDC
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
*L-228-19/0	Albarino, Cesar G.	(b)(4)	Colorado State University	4-Sep-19						(b) (3) (A), (b) (4), (b) (6)
*L-228-19/0	Bird, Brian H.	(b)(6)	Colorado State University	4-Sep-19						
*L-228-19/0	Ksiazek, Thomas G.		Colorado State University	4-Sep-19						
*L-228-19/0	Nichol, Stuart T.		Colorado State University	4-Sep-19						
*L-150-13/1	CDC		Changchun Hongda Bio. Pharm. Co., Ltd.	4-Sep-19						
*L-005-14/2	CDC		Trellis Bioscience	9-Sep-19						
					\$428,514.65	\$16,603.89	\$445,118.54		\$103,938.73	\$341,179.81

* denotes an adjustment to fix a problem from a previous month

NIH Patent Licensing Activities

CIT

April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities

CIT

May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-008-15/1	CIT		xMD Diagnostics, LLC	30-May-19						(b) (3) (A), (b) (4)

Note: L-008-15/1 split between CIT; NCI; NICHD

NIH Patent Licensing Activities

CIT

June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-028-18/1	CIT		Scanmed LLC	24-Jun-19						(b) (3) (A), (b) (4)

Note: L-028-18/1 split between CC; CIT; NCI

NIH Patent Licensing Activities

CIT

July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-318-01/0	CIT		Arcturus	2-Jul-19						(b) (3) (A), (b) (4)

Note: L-318-01/0 split between CIT; NIBIB; NICHD

NIH Patent Licensing Activities

CIT

August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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L-008-15/1 CIT xMD Diagnostics, LLC 13-Aug-19
Note: L-008-15/1 split between CIT; NCI; NICHD

L-232-14/0 CIT NanoString Technologies, Inc. 20-Aug-19
Note: L-232-14/0 split between CIT; NCI

NIH Patent Licensing Activities

CIT

September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$0.00	\$0.00	\$0.00		\$0.00	\$0.00

NIH Patent Licensing Activities
 FDA
 April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-119-09/2	FDA		Fundacao Butantan	10-Apr-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-119-09/2 split between FDA; NIAID</i>										
L-119-09/2	Falgout, Barry	(b)(4);	Fundacao Butantan	10-Apr-19						
L-119-09/2	Markoff, Lewis	(b)(6)	Fundacao Butantan	10-Apr-19						
<i>Note: L-119-09/2 split between FDA; NIAID</i>										
L-347-14/0	Donnelly, Raymond P.		Abcam, plc	15-Apr-19						
<i>Note: L-347-14/0 split between FDA; NCI</i>										

NIH Patent Licensing Activities
 FDA
 May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
L-174-19/0	Norcross, Michael	(b)(4);	Maze Therapeutics, Inc	13-May-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-174-19/0 split between FDA; NIAID</i>										

NIH Patent Licensing Activities
 FDA
 June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
L-101-19/0	Falgout, Barry	(b)(4);	GlaxoSmithKline Biologicals	6-Jun-19						(b) (3) (A), (b) (4), (b) (6)
L-101-19/0	Markoff, Lewis	(b)(6)	GlaxoSmithKline Biologicals	6-Jun-19						
<i>Note: L-101-19/0 split between FDA; NIAID</i>										
L-101-19/0	Falgout, Barry		GlaxoSmithKline Biologicals	6-Jun-19						
L-101-19/0	Markoff, Lewis		GlaxoSmithKline Biologicals	6-Jun-19						
<i>Note: L-101-19/0 split between FDA; NIAID</i>										

NIH Patent Licensing Activities
 FDA
 July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
FDA
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-347-14/0	Donnelly, Raymond P.	(b)(4); (b)(6)	Abcam, plc	1-Aug-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-347-14/0 split between FDA; NCI</i>										
L-119-09/2	Falgout, Barry		Fundacao Butantan	1-Aug-19						
L-119-09/2	Markoff, Lewis		Fundacao Butantan	1-Aug-19						
<i>Note: L-119-09/2 split between FDA; NIAID</i>										
L-110-04/1	Falgout, Barry		Biological E. Ltd.	16-Aug-19						
L-110-04/1	Markoff, Lewis		Biological E. Ltd.	16-Aug-19						
<i>Note: L-110-04/1 split between FDA; NIAID</i>										

NIH Patent Licensing Activities
FDA
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$27,558.03	\$0.00	\$27,558.03		\$6,911.69	\$20,646.34

NIH Patent Licensing Activities
NCATS
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
NCATS
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-057-15/0	Austin, Christopher P.	(b)(4);	Vtesse, Inc	3-May-19						(b) (3) (A), (b) (4), (b) (6)
+L-057-15/0	Liu, Ke	(b)(6)	Vtesse, Inc	3-May-19						
+L-057-15/0	Marugan, Juan J.		Vtesse, Inc	3-May-19						
+L-057-15/0	McKew, John C.		Vtesse, Inc	3-May-19						
+L-057-15/0	Southall, Noel T.		Vtesse, Inc	3-May-19						
+L-057-15/0	Swaroop, Manju		Vtesse, Inc	3-May-19						
+L-057-15/0	Xiao, Jingbo		Vtesse, Inc	3-May-19						
+L-057-15/0	Xu, Miao		Vtesse, Inc	3-May-19						
+L-057-15/0	Zheng, Wei		Vtesse, Inc	3-May-19						

Note: L-057-15/0 split between NCATS; NHGRI

NIH Patent Licensing Activities
NCATS
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
*+L-196-19/0	Inglese, James	(b)(4);	Nuralis Pharmaceuticals, Inc	10-Jun-19						(b) (3) (A), (b) (4), (b) (6)
L-196-19/0	(b) (4)	(b)(6)	Nuralis Pharmaceuticals, Inc	10-Jun-19						
*+L-196-19/0	Southall, Noel T.		Nuralis Pharmaceuticals, Inc	10-Jun-19						
*+L-196-19/0	Thomas, Craig J.		Nuralis Pharmaceuticals, Inc	10-Jun-19						
*L-196-19/0	Titus, Steven		Nuralis Pharmaceuticals, Inc	10-Jun-19						
*+L-196-19/0	Zheng, Wei		Nuralis Pharmaceuticals, Inc	10-Jun-19						
+L-196-19/0	Inglese, James		Nuralis Pharmaceuticals, Inc	13-Jun-19						
+L-196-19/0	Southall, Noel T.		Nuralis Pharmaceuticals, Inc	13-Jun-19						
+L-196-19/0	Thomas, Craig J.		Nuralis Pharmaceuticals, Inc	13-Jun-19						
L-196-19/0	Titus, Steven		Nuralis Pharmaceuticals, Inc	13-Jun-19						
+L-196-19/0	Zheng, Wei		Nuralis Pharmaceuticals, Inc	13-Jun-19						
L-105-16/1	Alimardanov, Asaf R.		Mycovia Pharmaceuticals Inc	17-Jun-19						
+L-105-16/1	Behnke, Mark L.		Mycovia Pharmaceuticals Inc	17-Jun-19						

Note: L-196-19/0 split between NCATS; NIDDK

NIH Patent Licensing Activities
NCATS
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NCATS
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
NCATS
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-025-17/1	Morris, Patrick	(b)(4);	Tocris Bioscience	13-Sep-19						(b) (3) (A), (b) (4), (b) (6)
+L-025-17/1	Thomas, Craig J.	(b)(6)	Tocris Bioscience	13-Sep-19						

Note: L-025-17/1 split between NCATS; NIA; NIMH

					\$98,304.73	\$0 00	\$98,304.73		\$30,178.80	\$68,125.93
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* denotes an adjustment to fix a problem from a previous month
+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 NCI
 April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-080-93/3	Hathcock, Karen	(b)(4);	BD Biosciences - BD PharMingen, Inc.	1-Apr-19						(b) (3) (A), (b) (4), (b) (6)
+L-080-93/3	Hodes, Richard	(b)(6)	BD Biosciences - BD PharMingen, Inc.	1-Apr-19						
L-080-93/3	Laszlo, Gloria		BD Biosciences - BD PharMingen, Inc.	1-Apr-19						
+L-180-18/0	Schlom, Jeffrey		Sanofi-Aventis R&D	1-Apr-19						
+L-068-18/0	Bonomi, Carrie A.		Dicerna Pharmaceuticals	1-Apr-19						
+L-068-18/0	Dougherty, Kelly		Dicerna Pharmaceuticals	1-Apr-19						
+L-068-18/0	Hollingshead, Melinda G.		Dicerna Pharmaceuticals	1-Apr-19						
+L-045-08/1	Bonner, William M		Active Motif	1-Apr-19						
L-045-08/1	Rogakou, Efthimia P		Active Motif	1-Apr-19						
+L-237-18/0	Bonomi, Carrie A.		Inovio Pharmaceuticals, Inc.	2-Apr-19						
+L-237-18/0	Borgel, Suzanne D.		Inovio Pharmaceuticals, Inc.	2-Apr-19						
+L-237-18/0	Dougherty, Kelly		Inovio Pharmaceuticals, Inc.	2-Apr-19						
+L-237-18/0	Hollingshead, Melinda G.		Inovio Pharmaceuticals, Inc.	2-Apr-19						
+L-135-19/0	Afonin, Kirill		Sixfold Bioscience Inc.	4-Apr-19						
L-135-19/0	Bindewald, Eckart		Sixfold Bioscience Inc.	4-Apr-19						
L-135-19/0	Martins, Angelica		Sixfold Bioscience Inc.	4-Apr-19						
L-135-19/0	Parlea, Lorena		Sixfold Bioscience Inc.	4-Apr-19						
L-135-19/0	Shapiro, Bruce		Sixfold Bioscience Inc.	4-Apr-19						
+L-135-19/0	Viard, Mathias		Sixfold Bioscience Inc.	4-Apr-19						
+L-273-14/0	Chang, Nancy T.		Grifols Worldwide Operations Ltd.	5-Apr-19						
+L-273-14/0	Crowl, Robert		Grifols Worldwide Operations Ltd.	5-Apr-19						
+L-273-14/0	Fisher, Amanda G.		Grifols Worldwide Operations Ltd.	5-Apr-19						
+L-273-14/0	Hahn, Beatrice		Grifols Worldwide Operations Ltd.	5-Apr-19						
+L-273-14/0	Popovic, Mikulas		Grifols Worldwide Operations Ltd.	5-Apr-19						
+L-273-14/0	Reddy, E. Premkumar.		Grifols Worldwide Operations Ltd.	5-Apr-19						
+L-273-14/0	Sarnagadharan, Mangalasseril		Grifols Worldwide Operations Ltd.	5-Apr-19						
+L-273-14/0	Shaw, George M		Grifols Worldwide Operations Ltd.	5-Apr-19						
+L-125-13/0	Gazdar, Adi F.		BioRad	5-Apr-19						
+L-125-13/0	Johnson, Bruce E		BioRad	5-Apr-19						
+L-125-13/0	Kaye, Frederic J		BioRad	5-Apr-19						
+L-125-13/0	Khleif, Samir N.		BioRad	5-Apr-19						
+L-125-13/0	Minna, John D.		BioRad	5-Apr-19						
+L-125-13/0	Oie, Herbert K		BioRad	5-Apr-19						
+L-125-13/0	Pass, Harvey I.		BioRad	5-Apr-19						
+L-361-98/2	Hamilton, Thomas C		BioProcessing, Inc.	5-Apr-19						
+L-361-98/2	Ozols, Robert F		BioProcessing, Inc.	5-Apr-19						
+L-163-15/0	Copeland, Neal		Intact Genomics, Inc.	5-Apr-19						
+L-163-15/0	Court, Donald		Intact Genomics, Inc.	5-Apr-19						
+L-163-15/0	Ellis, Hilary Moyed		Intact Genomics, Inc.	5-Apr-19						
+L-163-15/0	Jenkins Copeland, Nancy A		Intact Genomics, Inc.	5-Apr-19						
+L-163-15/0	Lee, E-Chiang		Intact Genomics, Inc.	5-Apr-19						
+L-163-15/0	Liu, Pentao		Intact Genomics, Inc.	5-Apr-19						
+L-163-15/0	Sharan, Shyam K		Intact Genomics, Inc.	5-Apr-19						

+L-163-15/0	Swaminathan, Srividya	(b)(4);	Intact Genomics, Inc.	5-Apr-19
+L-163-15/0	Yu, Daiguan	(b)(6)	Intact Genomics, Inc.	5-Apr-19
+L-298-96/2	NCI		Merck & Co., Inc.	8-Apr-19
+L-127-11/2	NCI		BN ImmunoTherapeutics	9-Apr-19
+L-093-10/1	Chang, Nancy T.	(b)(4);	BioLytical Labs	9-Apr-19
+L-093-10/1	Crowl, Robert	(b)(6)	BioLytical Labs	9-Apr-19
+L-093-10/1	(b) (4)		BioLytical Labs	9-Apr-19
+L-093-10/1	Reddy, E. Premkumar.		BioLytical Labs	9-Apr-19
+L-093-10/1	Shaw, George M		BioLytical Labs	9-Apr-19
+L-138-05/3	Chang, Kai		Santa Cruz Biotechnology Inc	10-Apr-19
+L-138-05/3	Willingham, Mark C.		Santa Cruz Biotechnology Inc	10-Apr-19
+L-031-07/2	Aaronson, Stuart A.		Santa Cruz Biotechnology	10-Apr-19
+L-031-07/2	Lacal, Juan C.		Santa Cruz Biotechnology	10-Apr-19
+L-014-16/0	Hodge, James W.		Transgene SA	10-Apr-19
+L-014-16/0	Schlom, Jeffrey		Transgene SA	10-Apr-19
+L-160-10/0	Jelinek, Ivett		AbD Serotec	10-Apr-19
+L-160-10/0	Segal, David M.		AbD Serotec	10-Apr-19
+L-160-10/0	Wang, Yan		AbD Serotec	10-Apr-19
+L-227-17/0	Bonomi, Carrie A.		Seres Therapeutics, Inc.	10-Apr-19
+L-227-17/0	Borgel, Suzanne D.		Seres Therapeutics, Inc.	10-Apr-19
+L-227-17/0	Dougherty, Kelly		Seres Therapeutics, Inc.	10-Apr-19
+L-227-17/0	Hollingshead, Melinda G.		Seres Therapeutics, Inc.	10-Apr-19
+L-224-15/0	Kochenderfer, James N		Bluebird Bio	10-Apr-19
+L-032-16/0	NCI		Novartis International Pharmaceuticals L	10-Apr-19
+L-082-96/1	Chang, Nancy T.	(b)(4);	ZeptoMetrix Corp.	10-Apr-19
+L-082-96/1	Crowl, Robert	(b)(6)	ZeptoMetrix Corp.	10-Apr-19
+L-082-96/1	Fisher, Amanda G.		ZeptoMetrix Corp.	10-Apr-19
+L-082-96/1	Hahn, Beatrice		ZeptoMetrix Corp.	10-Apr-19
+L-082-96/1	(b) (4)		ZeptoMetrix Corp.	10-Apr-19
+L-082-96/1	Reddy, E. Premkumar.		ZeptoMetrix Corp.	10-Apr-19
+L-082-96/1	Sarnagadharan, Mangalasseril		ZeptoMetrix Corp.	10-Apr-19
+L-116-16/0	Esposito, Dominic		Relay Therapeutics, Inc.	10-Apr-19
+L-116-16/0	Gillette, William K.		Relay Therapeutics, Inc.	10-Apr-19
+L-116-16/0	Grose, Carissa L.		Relay Therapeutics, Inc.	10-Apr-19
+L-130-94/2	King, Charles R.		Santa Cruz Biotechnology	10-Apr-19
+L-130-94/2	Liotta, Lance		Santa Cruz Biotechnology	10-Apr-19
+L-130-94/2	Steeg, Patricia S.		Santa Cruz Biotechnology	10-Apr-19
+L-197-94/3	Cheng, Sheue-Yann		Santa Cruz Biotechnology, Inc.	10-Apr-19
+L-284-17/0	Bonomi, Carrie A.		Merck Sharp & Dohme Corp.	11-Apr-19
+L-284-17/0	Borgel, Suzanne D.		Merck Sharp & Dohme Corp.	11-Apr-19
+L-284-17/0	Dougherty, Kelly		Merck Sharp & Dohme Corp.	11-Apr-19
+L-284-17/0	Hollingshead, Melinda G.		Merck Sharp & Dohme Corp.	11-Apr-19
+L-155-19/0	Bonomi, Carrie A.		HJB (Hangzhou) Co., Ltd.	11-Apr-19

(b) (3) (A), (b) (4), (b) (6)

+L-155-19/0	Borgel, Suzanne D.	(b)(4);	HJB (Hangzhou) Co., Ltd.	11-Apr-19
+L-155-19/0	Dougherty, Kelly	(b)(6)	HJB (Hangzhou) Co., Ltd.	11-Apr-19
+L-155-19/0	Hollingshead, Melinda G.		HJB (Hangzhou) Co., Ltd.	11-Apr-19
+L-064-11/0	Barry, Todd		Eptiomics Inc	15-Apr-19
+L-064-11/0	Rosenwald, Andreas		Eptiomics Inc	15-Apr-19
+L-064-11/0	Staudt, Louis M		Eptiomics Inc	15-Apr-19
+L-064-11/0	Wiestner, Adrian		Eptiomics Inc	15-Apr-19
+L-064-11/0	Wilson, Wyndham H.		Eptiomics Inc	15-Apr-19
+L-347-14/0	Muchmore, Brian P.		Abcam, plc	15-Apr-19
+L-347-14/0	O'Brien, Thomas R		Abcam, plc	15-Apr-19
+L-347-14/0	Porter-Gill, Patricia A.		Abcam, plc	15-Apr-19
+L-347-14/0	Prokunina-Olsson, Ludmila		Abcam, plc	15-Apr-19
<i>Note: L-347-14/0 split between FDA; NCI</i>				
+L-126-10/0	Bonner, William M		Enzo Life Sciences, Inc.	15-Apr-19
L-126-10/0	Rogakou, Efthimia P		Enzo Life Sciences, Inc.	15-Apr-19
+L-089-16/3	Dimitrov, Dimitar S.		H2Bio	15-Apr-19
+L-089-16/3	Feng, Mingqian		H2Bio	15-Apr-19
+L-089-16/3	Gao, Wei		H2Bio	15-Apr-19
+L-089-16/3	Ho, Mitchell		H2Bio	15-Apr-19
+L-089-16/3	Tang, Zhewei		H2Bio	15-Apr-19
+L-032-06/2	NCI		Morphotek, Inc.	16-Apr-19
+L-132-19/0	Bonomi, Carrie A.	(b)(4);	Shattuck Labs, Inc	16-Apr-19
+L-132-19/0	Borgel, Suzanne D.	(b)(6)	Shattuck Labs, Inc	16-Apr-19
+L-132-19/0	Dougherty, Kelly		Shattuck Labs, Inc	16-Apr-19
+L-132-19/0	Hollingshead, Melinda G.		Shattuck Labs, Inc	16-Apr-19
+L-132-19/0	Bonomi, Carrie A.		Shattuck Labs, Inc	16-Apr-19
+L-132-19/0	Borgel, Suzanne D.		Shattuck Labs, Inc	16-Apr-19
+L-132-19/0	Dougherty, Kelly		Shattuck Labs, Inc	16-Apr-19
+L-132-19/0	Hollingshead, Melinda G.		Shattuck Labs, Inc	16-Apr-19
+L-238-18/0	Bonomi, Carrie A.		Vividion Therapeutics, Inc.	16-Apr-19
+L-238-18/0	Borgel, Suzanne D.		Vividion Therapeutics, Inc.	16-Apr-19
+L-238-18/0	Dougherty, Kelly		Vividion Therapeutics, Inc.	16-Apr-19
+L-238-18/0	Hollingshead, Melinda G.		Vividion Therapeutics, Inc.	16-Apr-19
+L-094-16/0	NCI		Immunova Therapeutics	22-Apr-19
+L-259-16/3	NCI		Kite Pharma	23-Apr-19
+L-086-19/0	Bonomi, Carrie A.	(b)(4);	Pionyr Immunotherapeutics, Inc.	23-Apr-19
+L-086-19/0	Dougherty, Kelly	(b)(6)	Pionyr Immunotherapeutics, Inc.	23-Apr-19
+L-086-19/0	Hollingshead, Melinda G.		Pionyr Immunotherapeutics, Inc.	23-Apr-19
+L-259-16/4	Cafri, Gal		Kite Pharma	23-Apr-19
+L-259-16/4	Hanada, Kenichi		Kite Pharma	23-Apr-19
+L-259-16/4	Lu, Yong-Chen		Kite Pharma	23-Apr-19
+L-259-16/4	Parkhurst, Maria		Kite Pharma	23-Apr-19
L-259-16/4	Pasetto, Anna		Kite Pharma	23-Apr-19
+L-259-16/4	Robbins, Paul F		Kite Pharma	23-Apr-19
+L-259-16/4	Rosenberg, Steven A.		Kite Pharma	23-Apr-19
+L-259-16/4	Tran, Eric		Kite Pharma	23-Apr-19
+L-259-16/4	Wang, Qiong		Kite Pharma	23-Apr-19

(b) (3) (A), (b) (4), (b) (6)

+L-259-16/4	Yang, James C	(b)(4);	Kite Pharma	23-Apr-19
+L-259-16/4	Yoseph, Rami	(b)(6)	Kite Pharma	23-Apr-19
+L-259-16/4	Yu, Zhiya		Kite Pharma	23-Apr-19
+L-259-16/4	Zheng, Zhili		Kite Pharma	23-Apr-19
+L-041-11/1	Franchini, Genoveffa		Immune Design Corp.	24-Apr-19
+L-041-11/1	Kalyanaraman, Vaniambadi S.		Immune Design Corp.	24-Apr-19
+L-041-11/1	Markham, Phillip D.		Immune Design Corp.	24-Apr-19
+L-041-11/1	Salahuddin, Syed Z.		Immune Design Corp.	24-Apr-19
+L-265-02/0	Marquez, Victor E		Tocris Cookson, Ltd.	25-Apr-19
<i>Note: L-265-02/0 split between NCI; NIDDK</i>				
+L-050-17/0	Bonomi, Carrie A.		Pfizer Global Research and Development	25-Apr-19
+L-050-17/0	Dougherty, Kelly		Pfizer Global Research and Development	25-Apr-19
+L-050-17/0	Hollingshead, Melinda G.		Pfizer Global Research and Development	25-Apr-19
+L-048-15/1	NCI		PDS Biotechnology Corp	25-Apr-19
+L-124-19/0	Gazdar, Adi F.	(b)(4);	Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Johnson, Bruce E	(b)(6)	Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Kaye, Frederic J		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Kheif, Samir N.		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Minna, John D.		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Oie, Herbert K		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Pass, Harvey I.		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Gazdar, Adi F.		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Johnson, Bruce E		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Kaye, Frederic J		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Kheif, Samir N.		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Minna, John D.		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Oie, Herbert K		Nichirei Biosciences, Inc.	26-Apr-19
+L-124-19/0	Pass, Harvey I.		Nichirei Biosciences, Inc.	26-Apr-19
+L-423-92/3	Schlom, Jeffrey		Zymed Laboratories, Inc.	29-Apr-19

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

NCI
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-267-18/0	Dimitrov, Dimitar S.	(b)(4);	Memorial Sloan-Kettering Cancer Center	1-May-19						(b) (3) (A), (b) (4), (b) (6)
+L-267-18/0	Feng, Yang	(b)(6)	Memorial Sloan-Kettering Cancer Center	1-May-19						
+L-012-19/0	Buck, Christopher		EMD Millipore Corporation	1-May-19						
+L-164-13/3	Lowy, Douglas R.		Aura Biosciences, Inc.	1-May-19						
+L-164-13/3	Roberts, Jeffrey		Aura Biosciences, Inc.	1-May-19						
+L-164-13/3	Schiller, John T		Aura Biosciences, Inc.	1-May-19						
+L-226-15/2	Hodge, James W.		KeraFAST	1-May-19						
+L-226-15/2	Schlom, Jeffrey		KeraFAST	1-May-19						
+L-192-15/1	Burgess, Rebecca C.		KeraFAST	1-May-19						
+L-192-15/1	Misteli, Thomas		KeraFAST	1-May-19						

+L-192-15/1	Roukos, Vasileios	(b)(4);	KeraFAST	1-May-19
+L-192-15/1	Soutoglou, Evi	(b)(6)	KeraFAST	1-May-19
L-055-18/0	Keseling, Beverly G		Agilis Biotherapeutics LLC	1-May-19
L-055-18/0	Warfield, Paul		Agilis Biotherapeutics LLC	1-May-19
+L-181-18/0	Bonomi, Carrie A.		ModernaTX, Inc.	1-May-19
+L-181-18/0	Borgel, Suzanne D.		ModernaTX, Inc.	1-May-19
+L-181-18/0	Dougherty, Kelly		ModernaTX, Inc.	1-May-19
+L-181-18/0	Hollingshead, Melinda G.		ModernaTX, Inc.	1-May-19
*+L-125-19/0	Doroshov, James H.		Merck KGaA	1-May-19
*L-125-19/0	Kinders, Robert		Merck KGaA	1-May-19
*+L-125-19/0	Marrero, Allison M.		Merck KGaA	1-May-19
*+L-125-19/0	Parchment, Ralph E.		Merck KGaA	1-May-19
*+L-125-19/0	Pfister, Thomas D.		Merck KGaA	1-May-19
+L-130-19/0	Bonomi, Carrie A.		Exelixis, Inc.	3-May-19
+L-130-19/0	Borgel, Suzanne D.		Exelixis, Inc.	3-May-19
+L-130-19/0	Dougherty, Kelly		Exelixis, Inc.	3-May-19
+L-130-19/0	Hollingshead, Melinda G.		Exelixis, Inc.	3-May-19
+L-113-19/0	Gottesman, Michael M.		Pharmaron Beijing Co., LTD	6-May-19
L-113-19/0	Ueda, Kazumitsu		Pharmaron Beijing Co., LTD	6-May-19
+L-085-18/0	Bonomi, Carrie A.		Pulse Biosciences	7-May-19
+L-085-18/0	Dougherty, Kelly		Pulse Biosciences	7-May-19
+L-085-18/0	Hollingshead, Melinda G.		Pulse Biosciences	7-May-19
+L-176-19/0	Bonomi, Carrie A.		Pionyr Immunotherapeutics, Inc	7-May-19
+L-176-19/0	Borgel, Suzanne D.		Pionyr Immunotherapeutics, Inc	7-May-19
+L-176-19/0	Dougherty, Kelly		Pionyr Immunotherapeutics, Inc	7-May-19
+L-176-19/0	Hollingshead, Melinda G.		Pionyr Immunotherapeutics, Inc	7-May-19
+L-147-18/0	Bonomi, Carrie A.		Genentech	9-May-19
+L-147-18/0	Borgel, Suzanne D.		Genentech	9-May-19
+L-147-18/0	Dougherty, Kelly		Genentech	9-May-19
+L-147-18/0	Hollingshead, Melinda G.		Genentech	9-May-19
+L-333-17/0	Bonomi, Carrie A.		Glenmark Pharmaceuticals, S.A.	13-May-19
+L-333-17/0	Borgel, Suzanne D.		Glenmark Pharmaceuticals, S.A.	13-May-19
+L-333-17/0	Dougherty, Kelly		Glenmark Pharmaceuticals, S.A.	13-May-19
+L-333-17/0	Hollingshead, Melinda G.		Glenmark Pharmaceuticals, S.A.	13-May-19
+L-175-07/1	Baba, Masaya		Immuquest Ltd	14-May-19
+L-175-07/1	Nickerson, Michael L.		Immuquest Ltd	14-May-19
+L-175-07/1	Schmidt, Laura S.		Immuquest Ltd	14-May-19
+L-175-07/1	Sharma, Nirmala D		Immuquest Ltd	14-May-19
+L-175-07/1	Warren, Michelle B.		Immuquest Ltd	14-May-19
+L-175-07/1	Zbar, Berton		Immuquest Ltd	14-May-19
+L-136-19/0	NCI		Nano Red, LLC	14-May-19
+L-183-99/0	Aaronson, Stuart A.	(b)(4);	Vysis, Inc.	15-May-19
+L-183-99/0	King, Charles R.	(b)(6)	Vysis, Inc.	15-May-19
+L-183-99/0	Kraus, (b)(6) Matthias		Vysis, Inc.	15-May-19
+L-230-15/0	Gazdar, Adi F.		Ignyta, Inc.	15-May-19
+L-230-15/0	Johnson, Bruce E		Ignyta, Inc.	15-May-19

(b) (3) (A), (b) (4), (b) (6)

+L-230-15/0	Kaye, Frederic J	(b)(4);	Ignyta, Inc.	15-May-19
+L-230-15/0	Khleif, Samir N.	(b)(6)	Ignyta, Inc.	15-May-19
+L-230-15/0	Minna, John D.		Ignyta, Inc.	15-May-19
+L-230-15/0	Oie, Herbert K		Ignyta, Inc.	15-May-19
+L-230-15/0	Pass, Harvey I.		Ignyta, Inc.	15-May-19
+L-066-07/0	Vishnuvajjala, B. Rao		Childrens Hospital of Los Angeles	15-May-19
+L-066-07/0	Vishnuvajjala, B. Rao		Childrens Hospital of Los Angeles	15-May-19
+L-279-17/0	Bonomi, Carrie A.		OncodesignBiotechnology	16-May-19
+L-279-17/0	Borgel, Suzanne D.		OncodesignBiotechnology	16-May-19
+L-279-17/0	Dougherty, Kelly		OncodesignBiotechnology	16-May-19
+L-279-17/0	Hollingshead, Melinda G.		OncodesignBiotechnology	16-May-19
+L-161-04/1	(b) (4)		SeraCare Life Sciences, Inc.	16-May-19
+L-161-04/1	Sarnagadharan, Mangalasseril		SeraCare Life Sciences, Inc.	16-May-19
+L-245-94/1	(b) (4)		Boston Biomedics	16-May-19
+L-245-94/1	Sarnagadharan, Mangalasseril		Boston Biomedics	16-May-19
<i>Note: L-245-94/1 split between NCI; NIAID</i>				
+L-024-18/0	Gazdar, Adi F.		SeraCare Life	16-May-19
+L-024-18/0	Johnson, Bruce E		SeraCare Life	16-May-19
+L-024-18/0	Kaye, Frederic J		SeraCare Life	16-May-19
+L-024-18/0	Khleif, Samir N.		SeraCare Life	16-May-19
+L-024-18/0	Minna, John D.		SeraCare Life	16-May-19
+L-024-18/0	Oie, Herbert K		SeraCare Life	16-May-19
+L-024-18/0	Pass, Harvey I.		SeraCare Life	16-May-19
+L-151-19/0	Bonomi, Carrie A.		Pliant Therapeutics, Inc	16-May-19
+L-151-19/0	Borgel, Suzanne D.		Pliant Therapeutics, Inc	16-May-19
+L-151-19/0	Dougherty, Kelly		Pliant Therapeutics, Inc	16-May-19
+L-151-19/0	Hollingshead, Melinda G.		Pliant Therapeutics, Inc	16-May-19
+L-225-18/0	Schlom, Jeffrey		Incyte Corporation	16-May-19
+L-075-13/0	Franchini, Genoveffa		Wuxi Apptec Inc	16-May-19
+L-075-13/0	Kalyanaraman, Vaniambadi S.		Wuxi Apptec Inc	16-May-19
+L-075-13/0	Markham, Phillip D.		Wuxi Apptec Inc	16-May-19
+L-075-13/0	Salahuddin, Syed Z.		Wuxi Apptec Inc	16-May-19
+L-188-19/0	Schlom, Jeffrey		Good Therapeutics, Inc	16-May-19
+L-188-19/0	Schlom, Jeffrey		Good Therapeutics, Inc	16-May-19
+L-149-18/1	Esposito, Dominic		Merck Sharp & Dohme	17-May-19
+L-149-18/1	Gillette, William K.		Merck Sharp & Dohme	17-May-19
+L-149-18/1	Grose, Carissa L.		Merck Sharp & Dohme	17-May-19
+L-158-18/1	(b) (4)		Merck Sharp & Dohme	17-May-19
+L-158-18/1	Esposito, Dominic		Merck Sharp & Dohme	17-May-19
+L-158-18/1	Hopkins, Ralph F.		Merck Sharp & Dohme	17-May-19
+L-158-18/1	Roberts, Veronica Ann		Merck Sharp & Dohme	17-May-19
+L-220-01/0	(b) (4)		Tibotec Pharm Ltd.	17-May-19
+L-027-06/2	Crowl, Robert		Maxim Biomedical	21-May-19
+L-027-06/2	(b) (4)		Maxim Biomedical	21-May-19

+L-027-06/2	Reddy, E. Premkumar.	(b)(4);	Maxim Biomedical	21-May-19
+L-027-06/2	Sarnagadharan, Mangalasseril	(b)(6)	Maxim Biomedical	21-May-19
+L-241-16/0	Bonomi, Carrie A.		BeiGene, Ltd.	22-May-19
+L-241-16/0	Borgel, Suzanne D.		BeiGene, Ltd.	22-May-19
+L-241-16/0	Dougherty, Kelly		BeiGene, Ltd.	22-May-19
+L-241-16/0	Hollingshead, Melinda G.		BeiGene, Ltd.	22-May-19
+L-264-17/0	Bonomi, Carrie A.		AstraZeneca	24-May-19
+L-264-17/0	Borgel, Suzanne D.		AstraZeneca	24-May-19
+L-264-17/0	Dougherty, Kelly		AstraZeneca	24-May-19
+L-264-17/0	Hollingshead, Melinda G.		AstraZeneca	24-May-19
+L-119-17/0	Esposito, Dominic		Boehringer Ingelheim International GmbH	28-May-19
+L-119-17/0	Gillette, William K.		Boehringer Ingelheim International GmbH	28-May-19
+L-119-17/0	Grose, Carissa L.		Boehringer Ingelheim International GmbH	28-May-19
+L-119-17/0	Stephens, Robert M.		Boehringer Ingelheim International GmbH	28-May-19
+L-252-17/0	Bonomi, Carrie A.		Champions Oncology, Inc.	28-May-19
+L-252-17/0	Borgel, Suzanne D.		Champions Oncology, Inc.	28-May-19
+L-252-17/0	Dougherty, Kelly		Champions Oncology, Inc.	28-May-19
+L-252-17/0	Hollingshead, Melinda G.		Champions Oncology, Inc.	28-May-19
+L-164-13/2	NCI		Aura Biosciences, Inc.	28-May-19
+L-164-13/2	Lowy, Douglas R.	(b)(4);	Aura Biosciences, Inc.	28-May-19
+L-164-13/2	Roberts, Jeffrey	(b)(6)	Aura Biosciences, Inc.	28-May-19
+L-164-13/2	Schiller, John T		Aura Biosciences, Inc.	28-May-19
+L-297-14/1	Gelboin, (b) (6) Harry		CYP450-GP	28-May-19
+L-297-14/1	Gonzalez, Frank J		CYP450-GP	28-May-19
+L-297-14/1	Krausz, Kristopher W.		CYP450-GP	28-May-19
+L-302-17/0	Bonomi, Carrie A.		Pfizer Global Research & Development	29-May-19
+L-302-17/0	Borgel, Suzanne D.		Pfizer Global Research & Development	29-May-19
+L-302-17/0	Dougherty, Kelly		Pfizer Global Research & Development	29-May-19
+L-302-17/0	Hollingshead, Melinda G.		Pfizer Global Research & Development	29-May-19
+L-083-11/0	Waldmann, Thomas A.		Abbott Biotherapeutics Corp.	29-May-19
<i>Note: L-083-11/0 split between NCI; NINDS</i>				
+L-209-15/0	Gazdar, Adi F.		HistoCyte Laboratories	29-May-19
+L-209-15/0	Johnson, Bruce E		HistoCyte Laboratories	29-May-19
+L-209-15/0	Kaye, Frederic J		HistoCyte Laboratories	29-May-19
+L-209-15/0	Khleif, Samir N.		HistoCyte Laboratories	29-May-19
+L-209-15/0	Minna, John D.		HistoCyte Laboratories	29-May-19
+L-209-15/0	Oie, Herbert K		HistoCyte Laboratories	29-May-19
+L-209-15/0	Pass, Harvey I.		HistoCyte Laboratories	29-May-19
+L-008-15/1	NCI		xMD Diagnostics, LLC	30-May-19
<i>Note: L-008-15/1 split between CIT; NCI; NICHD</i>				

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License	Inventor Awards June	Net Remaining to IC
								Cumulative Income		
+L-228-01/0	NCI		Cytos Biotechnology, Inc.	1-Jun-19						(b) (3) (A), (b) (4), (b) (6)
+L-104-12/2	Isenberg, Jeffrey	(b)(4);	Radiation Control Technologies	1-Jun-19						
+L-104-12/2	Maxhimer, Justin B	(b)(6)	Radiation Control Technologies	1-Jun-19						
+L-104-12/2	Roberts, David D.		Radiation Control Technologies	1-Jun-19						
L-104-12/2	(b) (4)		Radiation Control Technologies	1-Jun-19						
+L-263-17/1	(b) (4)		KeraFAST	1-Jun-19						
*+L-263-17/1	Esposito, Dominic		KeraFAST	1-Jun-19						
*+L-263-17/1	Hopkins, Ralph F.		KeraFAST	1-Jun-19						
*+L-263-17/1	Roberts, Veronica Ann		KeraFAST	1-Jun-19						
+L-097-00/2	Austin, Faye C.		BD Biosciences, PharMingen	3-Jun-19						
+L-097-00/2	Colcher, David		BD Biosciences, PharMingen	3-Jun-19						
+L-097-00/2	Hand, Patricia H		BD Biosciences, PharMingen	3-Jun-19						
+L-097-00/2	Nuti, Marianna		BD Biosciences, PharMingen	3-Jun-19						
+L-097-00/2	Schlom, Jeffrey		BD Biosciences, PharMingen	3-Jun-19						
+L-336-17/0	Bonomi, Carrie A.		Agenus, Inc.	3-Jun-19						
+L-336-17/0	Borgel, Suzanne D.		Agenus, Inc.	3-Jun-19						
+L-336-17/0	Dougherty, Kelly		Agenus, Inc.	3-Jun-19						
+L-336-17/0	Hollingshead, Melinda G.		Agenus, Inc.	3-Jun-19						
+L-148-18/0	(b) (4)		BravoVax Co., Ltd.	3-Jun-19						
+L-148-18/0	Lowy, Douglas R.		BravoVax Co., Ltd.	3-Jun-19						
+L-148-18/0	Pastrana, Diana V		BravoVax Co., Ltd.	3-Jun-19						
+L-113-19/0	Gottesman, Michael M.		Pharmaron Beijing Co., LTD	3-Jun-19						
L-113-19/0	Ueda, Kazumitsu		Pharmaron Beijing Co., LTD	3-Jun-19						
*+L-154-97/2	Mason, Llewellyn H.		PharMingen, Inc.	3-Jun-19						
*+L-154-97/2	Ortaldo, John R.		PharMingen, Inc.	3-Jun-19						
*+L-182-19/0	Buck, Christopher		BravoVax Co., Ltd	3-Jun-19						
*+L-182-19/0	Day, Patricia		BravoVax Co., Ltd	3-Jun-19						
*+L-182-19/0	Fitzgerald, David J.		BravoVax Co., Ltd	3-Jun-19						
+L-182-19/0	(b) (4)		BravoVax Co., Ltd	3-Jun-19						
*+L-182-19/0	Lowy, Douglas R.		BravoVax Co., Ltd	3-Jun-19						
*+L-182-19/0	Pastrana, Diana V		BravoVax Co., Ltd	3-Jun-19						
*+L-182-19/0	Roden, Richard B		BravoVax Co., Ltd	3-Jun-19						
+L-047-06/2	Chang, Nancy T.		Chembio Diagnostic	4-Jun-19						
+L-047-06/2	Crowl, Robert		Chembio Diagnostic	4-Jun-19						
+L-047-06/2	(b) (4)		Chembio Diagnostic	4-Jun-19						
+L-047-06/2	Reddy, E. Premkumar.		Chembio Diagnostic	4-Jun-19						
+L-140-19/0	Kashmiri, (b) (6) Syed		PercepTx, Inc.	4-Jun-19						
+L-140-19/0	Schlom, Jeffrey		PercepTx, Inc.	4-Jun-19						
<i>Note: L-140-19/0 split between NCI; NIDDK</i>										
L-189-19/0	Fleming, Bryan		New Discovery Biologics, Inc.	4-Jun-19						
+L-189-19/0	Ho, Mitchell		New Discovery Biologics, Inc.	4-Jun-19						
+L-189-19/0	Li, Nan		New Discovery Biologics, Inc.	4-Jun-19						
+L-123-17/0	Bonomi, Carrie A.		Lupin Ltd.	5-Jun-19						
+L-123-17/0	Dougherty, Kelly		Lupin Ltd.	5-Jun-19						

+L-123-17/0	Hollingshead, Melinda G.	(b)(4);	Lupin Ltd.	5-Jun-19
+L-224-15/0	NCI		Bluebird Bio	5-Jun-19
+L-092-12/2	NCI		Admune Therapeutics LLC	5-Jun-19
+L-138-19/0	Bagni- Beyer, Rachel K.	(b)(4);	Quanta Therapeutics, Inc., University of	5-Jun-19
+L-138-19/0	(b) (4)	(b)(6)	Quanta Therapeutics, Inc., University of	5-Jun-19
+L-138-19/0	Holderfield, Matthew T.		Quanta Therapeutics, Inc., University of	5-Jun-19
+L-138-19/0	Soppet, Dan		Quanta Therapeutics, Inc., University of	5-Jun-19
+L-203-17/0	Bonomi, Carrie A.		Momenta Pharmaceuticals, Inc.	6-Jun-19
+L-203-17/0	Borgel, Suzanne D.		Momenta Pharmaceuticals, Inc.	6-Jun-19
+L-203-17/0	Dougherty, Kelly		Momenta Pharmaceuticals, Inc.	6-Jun-19
+L-203-17/0	Hollingshead, Melinda G.		Momenta Pharmaceuticals, Inc.	6-Jun-19
+L-121-08/0	Brechbiel, Martin W.		Medtronic Inc	7-Jun-19
+L-121-08/0	Garmestani, Kayhan		Medtronic Inc	7-Jun-19
<i>Note: L-121-08/0 split between NCI; NINDS</i>				
+L-147-18/0	Bonomi, Carrie A.		Genentech	12-Jun-19
+L-147-18/0	Borgel, Suzanne D.		Genentech	12-Jun-19
+L-147-18/0	Dougherty, Kelly		Genentech	12-Jun-19
+L-147-18/0	Hollingshead, Melinda G.		Genentech	12-Jun-19
+L-134-16/1	NCI		Ardeagen Corporation	12-Jun-19
+L-134-16/1	NCI		Ardeagen Corporation	12-Jun-19
+L-066-07/0	Vishnuvajjala, B. Rao	(b)(4);	Childrens Hospital of Los Angeles	12-Jun-19
		(b)(6)		
+L-055-12/1	Gazdar, Adi F.		Molecular Imaging	14-Jun-19
+L-055-12/1	Johnson, Bruce E		Molecular Imaging	14-Jun-19
+L-055-12/1	Kaye, Frederic J		Molecular Imaging	14-Jun-19
+L-055-12/1	Kheif, Samir N.		Molecular Imaging	14-Jun-19
+L-055-12/1	Minna, John D.		Molecular Imaging	14-Jun-19
+L-055-12/1	Oie, Herbert K		Molecular Imaging	14-Jun-19
+L-055-12/1	Pass, Harvey I.		Molecular Imaging	14-Jun-19
+L-052-18/0	NCI		MedGene Therapeutics, Inc.	14-Jun-19
+L-117-17/0	NCI		Aspyrian Therapeutics, Inc.	17-Jun-19
+L-049-91/5	Aaronson, Stuart A.	(b)(4);	Biovitium AB (publ)	17-Jun-19
+L-049-91/5	Finch, Paul W.	(b)(6)	Biovitium AB (publ)	17-Jun-19
+L-049-91/5	Rubin, Jeffrey S		Biovitium AB (publ)	17-Jun-19
+L-032-06/2	Chang, Kai		Morphotek, Inc.	20-Jun-19
+L-032-06/2	Chowdhury, Partha S		Morphotek, Inc.	20-Jun-19
+L-032-06/2	Willingham, Mark C.		Morphotek, Inc.	20-Jun-19
+L-019-11/1	Dudley, Mark		MedImmune, Inc.	20-Jun-19
+L-019-11/1	Morgan, Richard A.		MedImmune, Inc.	20-Jun-19
+L-019-11/1	Robbins, Paul F		MedImmune, Inc.	20-Jun-19
+L-019-11/1	Rosenberg, Steven A.		MedImmune, Inc.	20-Jun-19
+L-049-16/0	Howley, Peter M.		The Regents of the University of Califor	20-Jun-19
+L-049-16/0	Howley, Peter M.		The Regents of the University of Califor	20-Jun-19

(b) (3) (A), (b) (4), (b) (6)

(b) (3) (A), (b) (4), (b) (6)

+L-049-94/2	Cheng, Sheue-Yann	(b)(4);	Affinity BioReagents	21-Jun-19
+L-022-17/0	NCI		Etubics Corporation	21-Jun-19
+L-211-17/0	Kahn, Richard A	(b)(4);	Emory University	24-Jun-19
+L-028-18/1	NCI		Scanmed LLC	24-Jun-19
<i>Note: L-028-18/1 split between CC; CIT; NCI</i>				
+L-184-19/0	Bonomi, Carrie A.	(b)(4);	Kowa Company LTD	25-Jun-19
+L-184-19/0	Borgel, Suzanne D.	(b)(6)	Kowa Company LTD	25-Jun-19
+L-184-19/0	Dougherty, Kelly		Kowa Company LTD	25-Jun-19
+L-184-19/0	Hollingshead, Melinda G.		Kowa Company LTD	25-Jun-19
+L-051-18/0	Bonomi, Carrie A.		Tango Therapeutics	26-Jun-19
+L-051-18/0	Borgel, Suzanne D.		Tango Therapeutics	26-Jun-19
+L-051-18/0	Dougherty, Kelly		Tango Therapeutics	26-Jun-19
+L-051-18/0	Hollingshead, Melinda G.		Tango Therapeutics	26-Jun-19
+L-092-12/2	NCI		Admune Therapeutics LLC	26-Jun-19
+L-183-19/0	Esposito, Dominic	(b)(4);	Plexixikon Inc.	26-Jun-19
+L-183-19/0	Gillette, William K.	(b)(6)	Plexixikon Inc.	26-Jun-19
+L-183-19/0	Grose, Carissa L.		Plexixikon Inc.	26-Jun-19
+L-074-10/0	Copeland, Neal		Codexis Inc	26-Jun-19
+L-074-10/0	Costantino, Nina		Codexis Inc	26-Jun-19
+L-074-10/0	Court, Donald		Codexis Inc	26-Jun-19
+L-074-10/0	Datta, Simanti		Codexis Inc	26-Jun-19
+L-074-10/0	Ellis, Hilary Moyed		Codexis Inc	26-Jun-19
+L-074-10/0	Jenkins Copeland, Nancy A		Codexis Inc	26-Jun-19
+L-074-10/0	Lee, E-Chiang		Codexis Inc	26-Jun-19
+L-074-10/0	Sawitzke, James		Codexis Inc	26-Jun-19
+L-074-10/0	Sharan, Shyam K		Codexis Inc	26-Jun-19
+L-074-10/0	Swaminathan, Srividya		Codexis Inc	26-Jun-19
+L-074-10/0	Yu, Daiguan		Codexis Inc	26-Jun-19
+L-177-19/0	Bonomi, Carrie A.		Gilead Sciences, Inc	27-Jun-19
+L-177-19/0	Borgel, Suzanne D.		Gilead Sciences, Inc	27-Jun-19
+L-177-19/0	Dougherty, Kelly		Gilead Sciences, Inc	27-Jun-19
+L-177-19/0	Hollingshead, Melinda G.		Gilead Sciences, Inc	27-Jun-19

NIH Patent Licensing Activities

NCI
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License	Inventor Awards July	Net Remaining to IC
								Cumulative Income		
(b) (4)	Hathcock, Karen	(b)(4);	BD Biosciences - BD PharMingen, Inc.	1-Jul-19						(b) (3) (A), (b) (4), (b) (6)
	Hodes, Richard	(b)(6)	BD Biosciences - BD PharMingen, Inc.	1-Jul-19						
	Laszlo, Gloria		BD Biosciences - BD PharMingen, Inc.	1-Jul-19						
	Bonomi, Carrie A.		Japan Tobacco	1-Jul-19						
	Borgel, Suzanne D.		Japan Tobacco	1-Jul-19						
	Dougherty, Kelly		Japan Tobacco	1-Jul-19						
	Hollingshead, Melinda G.		Japan Tobacco	1-Jul-19						

+L-149-19/0	NCI	Kite Pharma	1-Jul-19
+L-149-19/0	Wang, Qiong	(b)(4); Kite Pharma	1-Jul-19
+L-149-19/0	Yang, James C	(b)(6) Kite Pharma	1-Jul-19
+L-149-19/0	Yu, Zhiya	Kite Pharma	1-Jul-19
*+L-147-10/1	Green, Jeffrey E	Pfizer	2-Jul-19
*+L-201-19/0	Esposito, Dominic	LakePharma	3-Jul-19
*+L-201-19/0	Grose, Carissa L.	LakePharma	3-Jul-19
*+L-201-19/0	Esposito, Dominic	LakePharma	3-Jul-19
*+L-201-19/0	Grose, Carissa L.	LakePharma	3-Jul-19
*+L-049-91/5	Aaronson, Stuart A.	Biovitium AB (publ)	3-Jul-19
*+L-049-91/5	Finch, Paul W.	Biovitium AB (publ)	3-Jul-19
*+L-049-91/5	Rubin, Jeffrey S	Biovitium AB (publ)	3-Jul-19
*+L-210-15/0	NCI	GloveImmune, Inc.	3-Jul-19
*+L-224-17/0	Costantino, Nina	(b)(4); Delve Therapeutics	3-Jul-19
*+L-224-17/0	Court, Donald	(b)(6) Delve Therapeutics	3-Jul-19
*+L-224-17/0	Datta, Simanti	Delve Therapeutics	3-Jul-19
+L-039-11/0	Onda, Masanori	Rockland Immunochemicals, Inc.	3-Jul-19
*+L-181-19/0	Gonzalez, Frank J	Pfizer Inc.	5-Jul-19
*+L-181-19/0	Lee, Susanna Sau-Tuen	Pfizer Inc.	5-Jul-19
*+L-310-17/2	Miller, Valerie	3D Medicines	8-Jul-19
*+L-310-17/2	Wang, Xin Wei	3D Medicines	8-Jul-19
*+L-086-08/2	NCI	PAXVAX INC	9-Jul-19
*+L-190-19/0	Cafri, Gal	(b)(4); ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Deniger, Drew	(b)(6) ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Feldman, Steven A	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Fitzgerald, Peter C.	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Hanada, Kenichi	ZioPharm Oncology, Inc	10-Jul-19
*L-190-19/0	Lo, Winifred Margaret	ZioPharm Oncology, Inc	10-Jul-19
*L-190-19/0	Lu, Yong-Chen W.	ZioPharm Oncology, Inc	10-Jul-19
*L-190-19/0	Malekzadeh, Parisa	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Parkhurst, Maria	ZioPharm Oncology, Inc	10-Jul-19
*L-190-19/0	Pasetto, Anna	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Robbins, Paul F	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Rosenberg, Steven A.	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Tran, Eric	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Wang, Qiong	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Yang, James C	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Yoseph, Rami	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Yu, Zhiya	ZioPharm Oncology, Inc	10-Jul-19
*L-190-19/0	Zhao, Chihao	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	Zheng, Zhili	ZioPharm Oncology, Inc	10-Jul-19
*+L-190-19/0	NCI	ZioPharm Oncology, Inc	10-Jul-19
*+L-220-19/0	Deniger, Drew	(b)(4); Myst Therapeutics, Inc.	10-Jul-19
*L-220-19/0	Lalani, Almin	(b)(6) Myst Therapeutics, Inc.	10-Jul-19

*+L-220-19/0	Robbins, Paul F	(b)(4);	Myst Therapeutics, Inc.	10-Jul-19
*+L-220-19/0	Rosenberg, Steven A.	(b)(6)	Myst Therapeutics, Inc.	10-Jul-19
*+L-220-19/0	Deniger, Drew		Myst Therapeutics, Inc.	10-Jul-19
*L-220-19/0	Lalani, Almin		Myst Therapeutics, Inc.	10-Jul-19
*+L-220-19/0	Robbins, Paul F		Myst Therapeutics, Inc.	10-Jul-19
*+L-220-19/0	Rosenberg, Steven A.		Myst Therapeutics, Inc.	10-Jul-19
*L-055-18/1	Keseling, Beverly G		Agilis Biotherapeutics LLC	11-Jul-19
*L-055-18/1	Warfield, Paul		Agilis Biotherapeutics LLC	11-Jul-19
*+L-273-14/0	Chang, Nancy T.		Grifols Worldwide Operations Ltd.	15-Jul-19
*+L-273-14/0	Crowl, Robert		Grifols Worldwide Operations Ltd.	15-Jul-19
*+L-273-14/0	Fisher, Amanda G.		Grifols Worldwide Operations Ltd.	15-Jul-19
*+L-273-14/0	Hahn, Beatrice		Grifols Worldwide Operations Ltd.	15-Jul-19
*+L-273-14/0	Reddy, E. Premkumar.		Grifols Worldwide Operations Ltd.	15-Jul-19
*+L-273-14/0	Sarnagadharan, Mangalasseril		Grifols Worldwide Operations Ltd.	15-Jul-19
*+L-102-14/1	Copeland, Neal		Enevolv Inc	15-Jul-19
*+L-102-14/1	Costantino, Nina		Enevolv Inc	15-Jul-19
*+L-102-14/1	Court, Donald		Enevolv Inc	15-Jul-19
*+L-102-14/1	Ellis, Hilary Moyed		Enevolv Inc	15-Jul-19
*+L-102-14/1	Jenkins Copeland, Nancy A		Enevolv Inc	15-Jul-19
*+L-102-14/1	Lee, E-Chiang		Enevolv Inc	15-Jul-19
*+L-102-14/1	Liu, Pentao		Enevolv Inc	15-Jul-19
*+L-102-14/1	Sharan, Shyam K		Enevolv Inc	15-Jul-19
*+L-102-14/1	Swaminathan, Srividya		Enevolv Inc	15-Jul-19
*+L-102-14/1	Warming, Soren		Enevolv Inc	15-Jul-19
*+L-102-14/1	Yu, Daiguan		Enevolv Inc	15-Jul-19
*+L-197-19/0	Radmacher, Michael D		Arvinas Operations, Inc.	16-Jul-19
*+L-197-19/0	Simon, Richard		Arvinas Operations, Inc.	16-Jul-19
*+L-264-17/0	Bonomi, Carrie A.		AstraZeneca	19-Jul-19
*+L-264-17/0	Borgel, Suzanne D.		AstraZeneca	19-Jul-19
*+L-264-17/0	Dougherty, Kelly		AstraZeneca	19-Jul-19
*+L-264-17/0	Hollingshead, Melinda G.		AstraZeneca	19-Jul-19
*+L-231-19/0	Copeland, Neal		Redbiotec AG	22-Jul-19
*+L-231-19/0	Costantino, Nina		Redbiotec AG	22-Jul-19
*+L-231-19/0	Court, Donald		Redbiotec AG	22-Jul-19
*+L-231-19/0	Ellis, Hilary Moyed		Redbiotec AG	22-Jul-19
*+L-231-19/0	Jenkins Copeland, Nancy A		Redbiotec AG	22-Jul-19
*+L-231-19/0	Lee, E-Chiang		Redbiotec AG	22-Jul-19
*+L-231-19/0	Sharan, Shyam K		Redbiotec AG	22-Jul-19
*+L-231-19/0	Swaminathan, Srividya		Redbiotec AG	22-Jul-19
*+L-231-19/0	Warming, Soren		Redbiotec AG	22-Jul-19
*+L-231-19/0	Yu, Daiguan		Redbiotec AG	22-Jul-19
*+L-239-16/1	Bonomi, Carrie A.		Alkermes, Inc.	22-Jul-19
*+L-239-16/1	Borgel, Suzanne D.		Alkermes, Inc.	22-Jul-19
*+L-239-16/1	Dougherty, Kelly		Alkermes, Inc.	22-Jul-19
*+L-239-16/1	Hollingshead, Melinda G.		Alkermes, Inc.	22-Jul-19
*+L-175-19/0	Rhim, Johng S.		Cerus Corporation	23-Jul-19
*+L-213-19/0	Doroshov, James H.		Bio-Techne Corporation	23-Jul-19
*L-213-19/0	Navas, Mario Antonio		Bio-Techne Corporation	23-Jul-19
*+L-213-19/0	Parchment, Ralph E.		Bio-Techne Corporation	23-Jul-19

+L-213-19/0	Pfister, Thomas D.	(b)(4):	Bio-Techne Corporation	23-Jul-19
+L-213-19/0	Srivastava, Apurva	(b)(6)	Bio-Techne Corporation	23-Jul-19
*+L-015-84/8	Chang, Nancy T.		Abbott Laboratories	25-Jul-19
*+L-015-84/8	Crowl, Robert		Abbott Laboratories	25-Jul-19
*+L-015-84/8	Fisher, Amanda G.		Abbott Laboratories	25-Jul-19
*+L-015-84/8	Hahn, Beatrice		Abbott Laboratories	25-Jul-19
+L-015-84/8	(b) (4)		Abbott Laboratories	25-Jul-19
*+L-015-84/8	Reddy, E. Premkumar.		Abbott Laboratories	25-Jul-19
*+L-015-84/8	Sarnagadharan, Mangalasseril		Abbott Laboratories	25-Jul-19
+L-150-16/1	Bonomi, Carrie A.		Array BioPharma	25-Jul-19
+L-150-16/1	Borgel, Suzanne D.		Array BioPharma	25-Jul-19
+L-150-16/1	Dougherty, Kelly		Array BioPharma	25-Jul-19
+L-150-16/1	Hollingshead, Melinda G.		Array BioPharma	25-Jul-19
*+L-259-16/4	Cafri, Gal		Kite Pharma	26-Jul-19
*+L-259-16/4	Hanada, Kenichi		Kite Pharma	26-Jul-19
*+L-259-16/4	Lu, Yong-Chen		Kite Pharma	26-Jul-19
*+L-259-16/4	Parkhurst, Maria		Kite Pharma	26-Jul-19
*L-259-16/4	Pasetto, Anna		Kite Pharma	26-Jul-19
*+L-259-16/4	Robbins, Paul F		Kite Pharma	26-Jul-19
*+L-259-16/4	Rosenberg, Steven A.		Kite Pharma	26-Jul-19
*+L-259-16/4	Tran, Eric		Kite Pharma	26-Jul-19
*+L-259-16/4	Wang, Qiong		Kite Pharma	26-Jul-19
*+L-259-16/4	Yang, James C		Kite Pharma	26-Jul-19
*+L-259-16/4	Yoseph, Rami		Kite Pharma	26-Jul-19
*+L-259-16/4	Yu, Zhiya		Kite Pharma	26-Jul-19
*+L-259-16/4	Zheng, Zhili		Kite Pharma	26-Jul-19
*+L-259-16/4	NCI		Kite Pharma	26-Jul-19
*+L-121-08/0	NCI		Medtronic Inc	30-Jul-19

Note: L-121-08/0 split between NCI; NINDS

+L-063-16/1	Gazdar, Adi F.	(b)(4):	GlaxoSmithKline	30-Jul-19
+L-063-16/1	Johnson, Bruce E	(b)(6)	GlaxoSmithKline	30-Jul-19
+L-063-16/1	Kaye, Frederic J		GlaxoSmithKline	30-Jul-19
+L-063-16/1	Kheif, Samir N.		GlaxoSmithKline	30-Jul-19
+L-063-16/1	Minna, John D.		GlaxoSmithKline	30-Jul-19
+L-063-16/1	Oie, Herbert K		GlaxoSmithKline	30-Jul-19
+L-063-16/1	Pass, Harvey I.		GlaxoSmithKline	30-Jul-19

NIH Patent Licensing Activities
NCI
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-347-14/0	Muchmore, Brian P.	(b)(4):	Abcam, plc	1-Aug-19						(b) (3) (A), (b) (4), (b) (6)
+L-347-14/0	O'Brien, Thomas R	(b)(6)	Abcam, plc	1-Aug-19						
+L-347-14/0	Porter-Gill, Patricia A.		Abcam, plc	1-Aug-19						
+L-347-14/0	Prokunina-Olsson, Ludmila		Abcam, plc	1-Aug-19						

Note: L-347-14/0 split between FDA; NCI

+L-064-11/0	Barry, Todd		Eptiomics Inc	1-Aug-19						
+L-064-11/0	Rosenwald, Andreas		Eptiomics Inc	1-Aug-19						

+L-064-11/0	Staudt, Louis M	(b)(4);	Eptiomics Inc	1-Aug-19
+L-064-11/0	Wiestner, Adrian	(b)(6)	Eptiomics Inc	1-Aug-19
+L-064-11/0	Wilson, Wyndham H.		Eptiomics Inc	1-Aug-19
+L-194-19/0	Buck, Christopher		Etna Biotech Srl	1-Aug-19
+L-194-19/0	(b) (4)		Etna Biotech Srl	1-Aug-19
+L-194-19/0	Pastrana, Diana V		Etna Biotech Srl	1-Aug-19
+L-194-19/0	Roden, Richard B		Etna Biotech Srl	1-Aug-19
+L-194-19/0	Buck, Christopher		Etna Biotech Srl	1-Aug-19
+L-194-19/0	(b) (4)		Etna Biotech Srl	1-Aug-19
+L-194-19/0	Pastrana, Diana V		Etna Biotech Srl	1-Aug-19
+L-194-19/0	Roden, Richard B		Etna Biotech Srl	1-Aug-19
+L-202-19/0	Buck, Christopher		National Institute of Food & Drug Safety	1-Aug-19
+L-049-01/3	Bustin, Michael		Upstate	1-Aug-19
+L-221-19/0	Franchini, Genoveffa		Genosafe SAS	5-Aug-19
+L-221-19/0	Kalyanaraman, Vaniambadi S.		Genosafe SAS	5-Aug-19
+L-221-19/0	Markham, Phillip D.		Genosafe SAS	5-Aug-19
+L-221-19/0	Salahuddin, Syed Z.		Genosafe SAS	5-Aug-19
+L-221-19/0	Franchini, Genoveffa		Genosafe SAS	5-Aug-19
+L-221-19/0	Kalyanaraman, Vaniambadi S.		Genosafe SAS	5-Aug-19
+L-221-19/0	Markham, Phillip D.		Genosafe SAS	5-Aug-19
+L-221-19/0	Salahuddin, Syed Z.		Genosafe SAS	5-Aug-19
+L-161-19/0	Gazdar, Adi F.		Genosafe SAS	5-Aug-19
+L-161-19/0	Johnson, Bruce E		Genosafe SAS	5-Aug-19
+L-161-19/0	Kaye, Frederic J		Genosafe SAS	5-Aug-19
+L-161-19/0	Kheif, Samir N.		Genosafe SAS	5-Aug-19
+L-161-19/0	Minna, John D.		Genosafe SAS	5-Aug-19
+L-161-19/0	Oie, Herbert K		Genosafe SAS	5-Aug-19
+L-161-19/0	Pass, Harvey I.		Genosafe SAS	5-Aug-19
+L-153-19/0	Bagni- Beyer, Rachel K.		Novartis Institutes for BioMedical Resea	5-Aug-19
+L-153-19/0	(b) (4)		Novartis Institutes for BioMedical Resea	5-Aug-19
+L-153-19/0	Holderfield, Matthew T.		Novartis Institutes for BioMedical Resea	5-Aug-19
+L-153-19/0	Soppet, Dan		Novartis Institutes for BioMedical Resea	5-Aug-19
+L-238-19/0	Hanada, Kenichi		T-Cure Bioscience, Inc	8-Aug-19
+L-238-19/0	Wang, Qiong		T-Cure Bioscience, Inc	8-Aug-19
+L-238-19/0	Yang, James C		T-Cure Bioscience, Inc	8-Aug-19
+L-192-19/0	Bonomi, Carrie A.		Hookipa Biotech GmbH	9-Aug-19
+L-192-19/0	Borgel, Suzanne D.		Hookipa Biotech GmbH	9-Aug-19
+L-192-19/0	Dougherty, Kelly		Hookipa Biotech GmbH	9-Aug-19
+L-192-19/0	Hollingshead, Melinda G.		Hookipa Biotech GmbH	9-Aug-19
L-086-08/2	(b) (4)	(b)(4);	PAXVAX INC	9-Aug-19
+L-086-08/2	Peng, Bo	(b)(6)	PAXVAX INC	9-Aug-19
+L-086-08/2	Robert-Guroff, Marjorie		PAXVAX INC	9-Aug-19
L-086-08/2	Voltan, Rebecca		PAXVAX INC	9-Aug-19
L-086-08/2	(b) (4)		PAXVAX INC	9-Aug-19
+L-086-08/2	Peng, Bo		PAXVAX INC	9-Aug-19
+L-086-08/2	Robert-Guroff, Marjorie		PAXVAX INC	9-Aug-19
L-086-08/2	Voltan, Rebecca		PAXVAX INC	9-Aug-19

(b) (3) (A), (b) (4), (b) (6)

L-086-08/2	(b) (4)	(b)(4);	PAXVAX INC	9-Aug-19
+L-086-08/2	Peng, Bo	(b)(6)	PAXVAX INC	9-Aug-19
+L-086-08/2	Robert-Guroff, Marjorie		PAXVAX INC	9-Aug-19
L-086-08/2	Voltan, Rebecca		PAXVAX INC	9-Aug-19
+L-241-19/0	Buck, Christopher		Pomona Ricerca SRL	13-Aug-19
+L-241-19/0	Pastrana, Diana V		Pomona Ricerca SRL	13-Aug-19
+L-241-19/0	Buck, Christopher		Pomona Ricerca SRL	13-Aug-19
+L-241-19/0	Pastrana, Diana V		Pomona Ricerca SRL	13-Aug-19
+L-107-10/2	NCI		Vasculox, Inc.	13-Aug-19
+L-008-15/1	NCI		xMD Diagnostics, LLC	13-Aug-19
<i>Note: L-008-15/1 split between CIT; NCI; NICHD</i>				
+L-256-18/0	Bonomi, Carrie A.	(b)(4);	Genentech, Inc.	15-Aug-19
+L-256-18/0	Dougherty, Kelly	(b)(6)	Genentech, Inc.	15-Aug-19
+L-256-18/0	Hollingshead, Melinda G.		Genentech, Inc.	15-Aug-19
+L-206-19/0	Gazdar, Adi F.		Crown Bioscience Inc.	15-Aug-19
+L-206-19/0	Johnson, Bruce E		Crown Bioscience Inc.	15-Aug-19
+L-206-19/0	Kaye, Frederic J		Crown Bioscience Inc.	15-Aug-19
+L-206-19/0	Kheif, Samir N.		Crown Bioscience Inc.	15-Aug-19
+L-206-19/0	Minna, John D.		Crown Bioscience Inc.	15-Aug-19
+L-206-19/0	Oie, Herbert K		Crown Bioscience Inc.	15-Aug-19
+L-206-19/0	Pass, Harvey I.		Crown Bioscience Inc.	15-Aug-19
+L-234-19/0	Feng, Mingqian		Senti Biosciences, Inc.	15-Aug-19
+L-234-19/0	Gao, Wei		Senti Biosciences, Inc.	15-Aug-19
+L-234-19/0	Ho, Mitchell		Senti Biosciences, Inc.	15-Aug-19
+L-234-19/0	Kim, Heungnam		Senti Biosciences, Inc.	15-Aug-19
+L-234-19/0	Phung, Yen T.		Senti Biosciences, Inc.	15-Aug-19
+L-234-19/0	Zhang, Yifan		Senti Biosciences, Inc.	15-Aug-19
+L-233-19/0	Ho, Mitchell		Senti Biosciences, Inc.	15-Aug-19
+L-233-19/0	Hong, Jessica		Senti Biosciences, Inc.	15-Aug-19
+L-233-19/0	Li, Nan		Senti Biosciences, Inc.	15-Aug-19
+L-089-19/0	Gazdar, Adi F.		Guardant Health, Inc.	16-Aug-19
+L-089-19/0	Johnson, Bruce E		Guardant Health, Inc.	16-Aug-19
+L-089-19/0	Kaye, Frederic J		Guardant Health, Inc.	16-Aug-19
+L-089-19/0	Kheif, Samir N.		Guardant Health, Inc.	16-Aug-19
+L-089-19/0	Minna, John D.		Guardant Health, Inc.	16-Aug-19
+L-089-19/0	Oie, Herbert K		Guardant Health, Inc.	16-Aug-19
+L-089-19/0	Pass, Harvey I.		Guardant Health, Inc.	16-Aug-19
+L-249-18/1	NCI		Morphix Biotherapeutics	16-Aug-19
+L-220-19/1	Deniger, Drew	(b)(4);	Myst Therapeutics, Inc.	16-Aug-19
L-220-19/1	Lalani, Almin	(b)(6)	Myst Therapeutics, Inc.	16-Aug-19
+L-220-19/1	Robbins, Paul F		Myst Therapeutics, Inc.	16-Aug-19
+L-220-19/1	Rosenberg, Steven A.		Myst Therapeutics, Inc.	16-Aug-19
+L-232-14/0	NCI		NanoString Technologies, Inc.	20-Aug-19
<i>Note: (b) (4) split between CIT; NCI</i>				
(b) (4)	Gazdar, Adi F.	(b)(4);	Personal Genome Dagnostics	20-Aug-19



+L-082-15/0	Johnson, Bruce E	(b)(4);	Personal Genome Diagnostics	20-Aug-19
+L-082-15/0	Kaye, Frederic J	(b)(6)	Personal Genome Diagnostics	20-Aug-19
+L-082-15/0	Khleif, Samir N.		Personal Genome Diagnostics	20-Aug-19
+L-082-15/0	Minna, John D.		Personal Genome Diagnostics	20-Aug-19
+L-082-15/0	Oie, Herbert K		Personal Genome Diagnostics	20-Aug-19
+L-082-15/0	Pass, Harvey I.		Personal Genome Diagnostics	20-Aug-19
+L-229-19/0	Bonomi, Carrie A.		Northern Biologics Inc.	21-Aug-19
+L-229-19/0	Dougherty, Kelly		Northern Biologics Inc.	21-Aug-19
+L-229-19/0	Hollingshead, Melinda G.		Northern Biologics Inc.	21-Aug-19
+L-262-19/0	Bonomi, Carrie A.		Maze Therapeutics, Inc.	21-Aug-19
+L-262-19/0	Borgel, Suzanne D.		Maze Therapeutics, Inc.	21-Aug-19
+L-262-19/0	Dougherty, Kelly		Maze Therapeutics, Inc.	21-Aug-19
+L-262-19/0	Hollingshead, Melinda G.		Maze Therapeutics, Inc.	21-Aug-19
+L-200-97/2	Gelboin, (b) (6) Harry		Panvera Corporation	21-Aug-19
+L-200-97/2	Gonzalez, Frank J		Panvera Corporation	21-Aug-19
+L-138-05/3	Chang, Kai		Santa Cruz Biotechnology Inc	23-Aug-19
+L-138-05/3	Willingham, Mark C.		Santa Cruz Biotechnology Inc	23-Aug-19
+L-073-03/3	Gottesman, Michael M.		Genentech	23-Aug-19
L-073-03/3	Ueda, Kazumitsu		Genentech	23-Aug-19
+L-215-19/0	Gottesman, Michael M.		Vertex Pharmaceuticals Inc	26-Aug-19
L-215-19/0	Ueda, Kazumitsu		Vertex Pharmaceuticals Inc	26-Aug-19
L-223-17/0	NCI		Selecta Biosciences, Inc.	26-Aug-19
+L-126-10/0	Bonner, William M	(b)(4);	Enzo Life Sciences, Inc.	27-Aug-19
L-126-10/0	Rogakou, Efthimia P	(b)(6)	Enzo Life Sciences, Inc.	27-Aug-19
+L-083-11/0	Waldmann, Thomas A.		Abbott Biotherapeutics Corp.	28-Aug-19
<i>Note: L-083-11/0 split between NCI; NINDS</i>				
+L-298-96/2	Greenstone, Heather L.		Merck & Co., Inc.	29-Aug-19
+L-298-96/2	Kirnbauer, Reinhard		Merck & Co., Inc.	29-Aug-19
+L-298-96/2	Lowy, Douglas R.		Merck & Co., Inc.	29-Aug-19
+L-122-17/0	Choyke, Peter L		Koninklijke Philips N.V.	29-Aug-19
+L-122-17/0	Pinto, Peter A		Koninklijke Philips N.V.	29-Aug-19
+L-122-17/0	Turkbey, Ismail B.		Koninklijke Philips N.V.	29-Aug-19
<i>Note: L-122-17/0 split between CC; NCI</i>				
+L-270-19/0	Bonomi, Carrie A.		Bluefin Biomedicine, Inc.	29-Aug-19
+L-270-19/0	Borgel, Suzanne D.		Bluefin Biomedicine, Inc.	29-Aug-19
+L-270-19/0	Dougherty, Kelly		Bluefin Biomedicine, Inc.	29-Aug-19
+L-270-19/0	Hollingshead, Melinda G.		Bluefin Biomedicine, Inc.	29-Aug-19
+L-263-19/0	Hanada, Kenichi		Teralmmune LLC	29-Aug-19
+L-263-19/0	Yang, James C		Teralmmune LLC	29-Aug-19
+L-263-19/0	Yu, Zhiya		Teralmmune LLC	29-Aug-19
+L-277-19/0	Bagni- Beyer, Rachel K.		Ribometrix Inc	30-Aug-19
+L-277-19/0	(b) (4)		Ribometrix Inc	30-Aug-19
+L-277-19/0	Holderfield, Matthew T.		Ribometrix Inc	30-Aug-19
+L-277-19/0	Soppet, Dan		Ribometrix Inc	30-Aug-19

(b) (3) (A), (b) (4), (b) (6)

+L-068-04/2 NCI
 Note: L-068-04/2 split between NCI; NIAID

Jennerex, LLC

30-Aug-19

(b) (3) (A), (b) (4)

NIH Patent Licensing Activities
 NCI
 September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
*+L-162-08/1	Roberts (b) (6) Anita	(b)(4);	BioLegend	3-Sep-19						(b) (3) (A), (b) (4), (b) (6)
*+L-162-08/1	Sporn, Michael B.	(b)(6)	BioLegend	3-Sep-19						
Note: L-162-08/1 split between NCI; NIAID										
*+L-073-09/0	Bonner, William M		BioLegend	3-Sep-19						
*L-073-09/0	Rogakou, Efthimia P		BioLegend	3-Sep-19						
*+L-095-12/0	Baskar, Sivasubramanian		BioLegend	3-Sep-19						
*+L-095-12/0	Rader, Christoph		BioLegend	3-Sep-19						
*+L-066-13/0	Chiang, Peter K.		Columbia University	4-Sep-19						
*+L-066-13/0	Hodes, Richard		Columbia University	4-Sep-19						
*+L-091-10/0	Bonner, William M		Novus Biologicals, Inc.	5-Sep-19						
*L-091-10/0	Rogakou, Efthimia P		Novus Biologicals, Inc.	5-Sep-19						
L-271-01/8	(b) (4)		Millennium Pharmaceuticals, Inc.	5-Sep-19						
*+L-216-19/0	Bonomi, Carrie A.		Revolution Medicines, Inc	5-Sep-19						
*+L-216-19/0	Dougherty, Kelly		Revolution Medicines, Inc	5-Sep-19						
*+L-216-19/0	Hollingshead, Melinda G.		Revolution Medicines, Inc	5-Sep-19						
*+L-216-19/0	Bonomi, Carrie A.		Revolution Medicines, Inc	5-Sep-19						
*+L-216-19/0	Dougherty, Kelly		Revolution Medicines, Inc	5-Sep-19						
*+L-216-19/0	Hollingshead, Melinda G.		Revolution Medicines, Inc	5-Sep-19						
*+L-154-97/2	Mason, Llewellyn H.		BD Biosciences - BD PharMingen	9-Sep-19						
*+L-154-97/2	Ortaldo, John R.		BD Biosciences - BD PharMingen	9-Sep-19						
*+L-097-00/2	Austin, Faye C.		BD Biosciences, PharMingen	9-Sep-19						
*+L-097-00/2	Colcher, David		BD Biosciences, PharMingen	9-Sep-19						
*+L-097-00/2	Hand, Patricia H		BD Biosciences, PharMingen	9-Sep-19						
*+L-097-00/2	Nuti, Marianna		BD Biosciences, PharMingen	9-Sep-19						
*+L-097-00/2	Schlom, Jeffrey		BD Biosciences, PharMingen	9-Sep-19						
*+L-134-16/1	NCI		Ardeagen Corporation	9-Sep-19						
*+L-281-19/0	Gazdar, Adi F.	(b)(4);	Lengo Therapeutics, Inc	10-Sep-19						
*+L-281-19/0	Johnson, Bruce E	(b)(6)	Lengo Therapeutics, Inc	10-Sep-19						
*+L-281-19/0	Kaye, Frederic J		Lengo Therapeutics, Inc	10-Sep-19						
*+L-281-19/0	Kheif, Samir N.		Lengo Therapeutics, Inc	10-Sep-19						
*+L-281-19/0	Minna, John D.		Lengo Therapeutics, Inc	10-Sep-19						
*+L-281-19/0	Oie, Herbert K		Lengo Therapeutics, Inc	10-Sep-19						
*+L-281-19/0	Pass, Harvey I.		Lengo Therapeutics, Inc	10-Sep-19						
*+L-242-02/2	Kawakami, Yutaka		Biocare Medical, LLC	12-Sep-19						
*+L-242-02/2	Rosenberg, Steven A.		Biocare Medical, LLC	12-Sep-19						

\$19,918,398.29	\$1,164,953.89	\$21,083,352.18	\$6,599,438.36	\$14,483,913.82
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* denotes an adjustment to fix a problem from a previous month
+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities

NHGRI

April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-128-19/0	Manoli, Eirini	(b)(6)	HemoShear Therapeutics, LLC	11-Apr-19						
+L-128-19/0	Venditti, Charles P.		HemoShear Therapeutics, LLC	11-Apr-19						
+L-128-19/0	Chandler, Randy J.		HemoShear Therapeutics, LLC	11-Apr-19						
+L-128-19/0	Manoli, Eirini		HemoShear Therapeutics, LLC	11-Apr-19						
+L-128-19/0	Venditti, Charles P.		HemoShear Therapeutics, LLC	11-Apr-19						

NIH Patent Licensing Activities

NHGRI

May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC	
											+L-057-15/0
<i>Note: L-057-15/0 split between NCATS; NHGRI</i>											
+L-204-18/0	Chandler, Randy J.	(b)(4);	Chameleon Biosciences Inc.	13-May-19							
+L-204-18/0	Pavan, William J	(b)(6)	Chameleon Biosciences Inc.	13-May-19							
+L-204-18/0	Venditti, Charles P.		Chameleon Biosciences Inc.	13-May-19							
+L-167-19/0	Chandler, Randy J.		Agios Pharmaceuticals, Inc	15-May-19							
+L-167-19/0	Manoli, Eirini		Agios Pharmaceuticals, Inc	15-May-19							
+L-167-19/0	Venditti, Charles P.		Agios Pharmaceuticals, Inc	15-May-19							

NIH Patent Licensing Activities

NHGRI

June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-069-19/0	Venditti, Charles P.	(b)(6)	LogicBio Therapeutics, Inc.	13-Jun-19						
+L-227-18/0	Chandler, Randy J.		LogicBio Therapeutics	13-Jun-19						
L-227-18/0	Smith, Stephanie N.		LogicBio Therapeutics	13-Jun-19						
+L-227-18/0	Venditti, Charles P.		LogicBio Therapeutics	13-Jun-19						
+L-207-19/0	Chandler, Randy J.		LifeMax Laboratories Inc	19-Jun-19						
+L-207-19/0	Manoli, Eirini		LifeMax Laboratories Inc	19-Jun-19						

+L-207-19/0 Venditti, Charles P.

(b)(4);
(b)(6)

LifeMax Laboratories Inc

19-Jun-19

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

NHGRI

July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities

NHGRI

August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities

NHGRI

September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
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					\$165,325.62	\$0.00	\$165,325.62		\$31,281.17	\$134,044.45
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+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 NHLBI
 April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-058-14/0	Chiorini, John A.	(b)(4)	Spark Therapeutics Ireland Ltd	1-Apr-19						(b) (3) (A), (b) (4), (b) (6)
+L-058-14/0	Kotin, Robert M.	(b)(6)	Spark Therapeutics Ireland Ltd	1-Apr-19						
+L-214-18/0	Combs, Christian A.		Yokogawa Electric Corporation	1-Apr-19						
<i>Note: L-214-18/0 split between NHLBI; NIBIB</i>										
+L-042-06/2	Aletras, Anthony Homer		Siemens AG, Med. Solutions	1-Apr-19						
+L-042-06/2	Kellman, Peter		Siemens AG, Med. Solutions	1-Apr-19						
+L-042-06/2	McVeigh, Elliott R		Siemens AG, Med. Solutions	1-Apr-19						
+L-042-06/2	Wen, Han		Siemens AG, Med. Solutions	1-Apr-19						
+L-256-14/0	Combs, Christian A.		VisiTech International	4-Apr-19						
<i>Note: L-256-14/0 split between NHLBI; NIBIB</i>										
+L-015-12/1	Berra, Lorenzo		EndOclear LLC	8-Apr-19						
+L-015-12/1	Kolobow, Theodor		EndOclear LLC	8-Apr-19						
+L-140-18/0	Haque, Nazmul		Millipore Sigma	10-Apr-19						
+L-140-18/0	Hogg, John Robert		Millipore Sigma	10-Apr-19						
+L-044-08/1	Nirenberg, (b) (6) Marshall		Miltenyi Biotec GMBH	10-Apr-19						
+L-044-08/1	Walsh, Frank		Miltenyi Biotec GMBH	10-Apr-19						
<i>Note: L-044-08/1 split between NHLBI; NIAID</i>										
+L-074-12/0	Chiorini, John A.		Vector BioLabs-TGDC	11-Apr-19						
+L-074-12/0	Kotin, Robert M.		Vector BioLabs-TGDC	11-Apr-19						
+L-209-17/0	(b) (4)		General Electric Co.	15-Apr-19						
+L-209-17/0	Nezafat, Reza		General Electric Co.	15-Apr-19						
+L-120-12/2	Ding, Chuantian		Sangamo Biosciences	16-Apr-19						
+L-120-12/2	Kotin, Robert M.		Sangamo Biosciences	16-Apr-19						
+L-120-12/2	Urabe, Masashi		Sangamo Biosciences	16-Apr-19						
+L-088-12/0	Chiorini, John A.		Sangamo BioSciences Inc	16-Apr-19						
+L-088-12/0	Kotin, Robert M.		Sangamo BioSciences Inc	16-Apr-19						
+L-088-12/0	(b) (4)		Sangamo BioSciences Inc	16-Apr-19						
<i>Note: L-088-12/0 split between NHLBI; NIDCR</i>										
+L-015-12/1	Berra, Lorenzo		EndOclear LLC	19-Apr-19						
+L-015-12/1	Kolobow, Theodor		EndOclear LLC	19-Apr-19						
+L-187-14/0	Combs, Christian A.		Andor Technology PLC	24-Apr-19						
<i>Note: L-187-14/0 split between NHLBI; NIBIB</i>										

NIH Patent Licensing Activities

NHLBI
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NHLBI
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-077-04/5	Ding, Chuantian	(b)(4);	Boeringer Ingelheim Pharma	3-Jun-19						(b) (3) (A), (b) (4), (b) (6)
+L-077-04/5	Kotin, Robert M.	(b)(6)	Boeringer Ingelheim Pharma	3-Jun-19						
+L-077-04/5	Smith, Richard H.		Boeringer Ingelheim Pharma	3-Jun-19						
+L-077-04/5	Urabe, Masashi		Boeringer Ingelheim Pharma	3-Jun-19						
+L-052-96/3	Leonard, Warren J.		Upstate	10-Jun-19						
+L-052-96/3	Lin, Jian-Xin		Upstate	10-Jun-19						
+L-145-19/0	Cannon, Richard O.		Globin Solutions, Inc	13-Jun-19						
+L-145-19/0	Gladwin, Mark T.		Globin Solutions, Inc	13-Jun-19						
+L-145-19/0	Hunter, Christian J		Globin Solutions, Inc	13-Jun-19						
+L-145-19/0	(b) (4)		Globin Solutions, Inc	13-Jun-19						
+L-145-19/0	(b) (4)		Globin Solutions, Inc	13-Jun-19						
+L-145-19/0	(b) (4)		Globin Solutions, Inc	13-Jun-19						
+L-145-19/0	(b) (4)		Globin Solutions, Inc	13-Jun-19						
<i>Note: L-145-19/0 split between CC; NHLBI; NIDDK; NINDS</i>										
+L-187-14/0	NHLBI		Andor Technology PLC	24-Jun-19						
<i>Note: L-187-14/0 split between NHLBI; NIBIB</i>										

NIH Patent Licensing Activities
NHLBI
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-258-18/0	NHLBI		: Siemens Healthcare GmbH	1-Jul-19						(b) (3) (A), (b) (4), (b) (6)
*+L-021-09/0	Chiorini, John A.	(b)(4);	Arthrogen BV	17-Jul-19						
*+L-021-09/0	Kotin, Robert M.	(b)(6)	Arthrogen BV	17-Jul-19						
+L-209-17/0	(b) (4)		General Electric Co.	18-Jul-19						
*+L-209-17/0	Nezafat, Reza		General Electric Co.	18-Jul-19						
*+L-102-07/1	Nirenberg, (b) (6) Marshall		Life Technologies Corporation	30-Jul-19						
*+L-102-07/1	Walsh, Frank		Life Technologies Corporation	30-Jul-19						
<i>Note: (b) (4) split between NHLBI; NIAID</i>										

NIH Patent Licensing Activities
NHLBI
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-243-16/0	Boehm, Manfred	(b)(4);	StemCell Technologies Inc.	9-Aug-19						(b) (3) (A), (b) (4), (b) (6)
+L-243-16/0	Chen, Guibin	(b)(6)	StemCell Technologies Inc.	9-Aug-19						
+L-243-16/0	Larochelle, Andre		StemCell Technologies Inc.	9-Aug-19						
<i>Note: L-243-16/0 split between NHLBI; NIAMS</i>										
+L-256-14/0	Combs, Christian A.		VisiTech International	13-Aug-19						
<i>Note: L-256-14/0 split between NHLBI; NIBIB</i>										
+L-256-14/0	NHLBI		VisiTech International	13-Aug-19						
<i>Note: L-256-14/0 split between NHLBI; NIBIB</i>										
+L-102-07/1	Nirenberg, (b) (6) Marshall	(b)(4);	Life Technologies Corporation	20-Aug-19						
+L-102-07/1	Walsh, Frank	(b)(6)	Life Technologies Corporation	20-Aug-19						
<i>Note: L-102-07/1 split between NHLBI; NIAID</i>										
+L-029-12/0	Derbyshire, John Andrew		Koninklijke Philips Electronics NV	29-Aug-19						
+L-029-12/0	(b) (4)		Koninklijke Philips Electronics NV	29-Aug-19						
+L-029-12/0	McVeigh, Elliott R		Koninklijke Philips Electronics NV	29-Aug-19						
+L-029-12/0	Nezafat, Reza		Koninklijke Philips Electronics NV	29-Aug-19						

NIH Patent Licensing Activities
NHLBI
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-240-17/0	NHLBI		United Therapeutics Corporation	4-Sep-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS</i>										
*L-104-18/0	Ding, Chuan-Tian	(b)(4);	LakePharma	6-Sep-19						
*+L-104-18/0	Kotin, Robert M.	(b)(6)	LakePharma	6-Sep-19						
*+L-104-18/0	Urabe, Masashi		LakePharma	6-Sep-19						
*+L-063-15/0	NHLBI		BioMarin Pharma.	12-Sep-19						
					\$234,758.73	\$16,303.66	\$251,062.39		\$117,192.01	\$133,870.38

* denotes an adjustment to fix a problem from a previous month
+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIA
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
NIA
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NIA
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NIA
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
L-328-14/0	NIA		Novo Nordisk A/S	8-Jul-19						(b) (3) (A), (b) (4)
L-281-14/1	NIA		Peptron	25-Jul-19						

NIH Patent Licensing Activities
NIA
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-014-89/2	Pitha, Josef	(b)(4);	Janssen Pharmaceutica Products, L.P.	20-Aug-19						(b) (3) (A), (b) (4), (b) (6)
+L-132-17/0	NIA		CereDx Inc.	21-Aug-19						
<i>Note: L-132-17/0 split between NIA; NINDS; NINR</i>										
L-132-17/0	Matarin Jimenez, Maria Del Mar	(b)(4);	CereDx Inc.	21-Aug-19						
+L-132-17/0	Singleton, Andrew B.	(b)(6)	CereDx Inc.	21-Aug-19						
<i>Note: L-132-17/0 split between NIA; NINDS; NINR</i>										
+L-310-98/0	Pitha, Josef	(b)(4);	Jurox Pty. Limited	30-Aug-19						

NIH Patent Licensing Activities
 NIA
 September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-025-17/1	Moaddel, Ruin	(b)(4); (b)	Tocris Bioscience	13-Sep-19						(b) (3) (A), (b) (4), (b) (6)
					\$134,043.20	\$19,298.10	\$153,341.30		\$33,153.14	\$120,188.16

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 NIAAA
 April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-194-05/1	Kunos, George I	(b)(4); (b)	Tocris Bioscience	25-Apr-19						(b) (3) (A), (b) (4), (b) (6)
+L-162-16/3	NIAAA		Inversago	25-Apr-19						
<i>Note: L-162-16/3 split between NIAAA; NIDA</i>										
+L-162-16/3	NIAAA		Inversago	25-Apr-19						
<i>Note: L-162-16/3 split between NIAAA; NIDA</i>										

NIH Patent Licensing Activities
 NIAAA
 May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
 NIAAA
 June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-162-16/3	NIAAA		Inversago	27-Jun-19						(b) (3) (A), (b) (4)
<i>Note: L-162-16/3 split between NIAAA; NIDA</i>										

NIH Patent Licensing Activities
 NIAAA
 July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
 NIAAA
 August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-222-16/0	Veech, Richard L.	(b)(4); (b)	TDELTAS Limited	29-Aug-19						(b) (3) (A), (b) (4), (b) (6)

**NIH Patent Licensing Activities
NIAAA
September 2019**

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
										(b) (3) (A), (b) (4), (b) (6)

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIAID
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC	
+L-079-93/2	Ohara, Junichi	(b)(4);	BD Biosciences - BD PharMingen	1-Apr-19						(b) (3) (A), (b) (4), (b) (6)	
+L-079-93/2	Paul, (b) (6) William E.	(b)(6)	BD Biosciences - BD PharMingen	1-Apr-19							
+L-074-91/3	Harriman, Gregory R.		Becton Dickinson & Subsidiary PharMingen	1-Apr-19							
+L-074-91/3	Kunimoto, Dennis Y.		Becton Dickinson & Subsidiary PharMingen	1-Apr-19							
+L-074-91/3	Paul, (b) (6) William E.		Becton Dickinson & Subsidiary PharMingen	1-Apr-19							
+L-074-91/3	Strober, Warren		Becton Dickinson & Subsidiary PharMingen	1-Apr-19							
+L-093-05/4	NIAID		Crucell Holland BV	1-Apr-19							
<i>Note: L-093-05/4 split between CDC; NIAID</i>											
L-162-15/1	Baxa, Ulrich	(b)(4);	Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Boyington, Jeffrey C.	(b)(6)	Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Chen, Lei		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Chen, Man		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Chuang, Gwo-Yu		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Druz, Aliaksandr A.		Merck Sharp and dohme	1-Apr-19							
L-162-15/1	Galen, Joseph Van		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Georgiev, Ivelin S.		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Gorman, Jason		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Graham, Barney S.		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Joyce, Michael G.		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Kanekiyo, Masaru		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Kong, Wing-pui		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Kwong, Peter D.		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Mascola, John R.		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	McLellan, Jason Scott		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	OFEK, GILAD A		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Ou, Li		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Pancera, Marie L.		Merck Sharp and dohme	1-Apr-19							
L-162-15/1	Rundlet, Emily		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Sastry, Mallika		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Soto, Cinque		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Srivatsan, Sanjay R.		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Stewart-Jones, Guillaume BE		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Thomas, Paul V.		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Tsybovsky, Yaroslav		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	YANG, YONGPING		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Zhang, Baoshan		Merck Sharp and dohme	1-Apr-19							
+L-162-15/1	Zhou, Tongqing		Merck Sharp and dohme	1-Apr-19							
+L-014-07/4	Kalinina, Olga V.		Life Technologies Corp.	1-Apr-19							
+L-014-07/4	Silver, Jonathan E.		Life Technologies Corp.	1-Apr-19							
+L-020-15/0	Leppla, Stephen H.		KeraFAST	3-Apr-19							
L-167-16/0	Adachi, Akio		Regeneron Pharmaceuticals, Inc.	3-Apr-19							
+L-167-16/0	Folks, Thomas M		Regeneron Pharmaceuticals, Inc.	3-Apr-19							
+L-167-16/0	Leonard, John M.		Regeneron Pharmaceuticals, Inc.	3-Apr-19							
+L-167-16/0	Martin, Malcolm A		Regeneron Pharmaceuticals, Inc.	3-Apr-19							
+L-167-16/0	Rabson, Arnold B.		Regeneron Pharmaceuticals, Inc.	3-Apr-19							
+L-167-16/0	Rutledge, Rosamond A.		Regeneron Pharmaceuticals, Inc.	3-Apr-19							

+L-167-16/0	Theodore, (b) (6) Theodore S	(b)(4);	Regeneron Pharmaceuticals, Inc.	3-Apr-19
+L-167-16/0	Willey, Ronald L.	(b)(6)	Regeneron Pharmaceuticals, Inc.	3-Apr-19
+L-179-15/0	Mackett, Michael		Regeneron Pharmaceuticals, Inc.	3-Apr-19
+L-179-15/0	Moss, Bernard		Regeneron Pharmaceuticals, Inc.	3-Apr-19
+L-179-15/0	Smith, Geoffrey L		Regeneron Pharmaceuticals, Inc.	3-Apr-19
*+L-211-14/2	Biacchesi, Stephanie		ViraTree, LLC	3-Apr-19
*+L-211-14/2	Buchholz, Ursula		ViraTree, LLC	3-Apr-19
*+L-211-14/2	Bukreyev, Alexander		ViraTree, LLC	3-Apr-19
*+L-211-14/2	Collins, Peter L.		ViraTree, LLC	3-Apr-19
*+L-211-14/2	Luongo, Cindy L.		ViraTree, LLC	3-Apr-19
*+L-211-14/2	Murphy, Brian R.		ViraTree, LLC	3-Apr-19
*+L-211-14/2	Nutt, Anne S.		ViraTree, LLC	3-Apr-19
+L-211-14/2	(b) (4)		ViraTree, LLC	3-Apr-19
*+L-211-14/2	Skiadopoulos, Mario		ViraTree, LLC	3-Apr-19
+L-211-14/2	(b) (4)		ViraTree, LLC	3-Apr-19
+L-113-04/1	Jeang, (b) (6) Kuan-Teh		Cell Signaling Technology, Inc.	5-Apr-19
+L-056-18/1	Akin, Cem		ActivX Biosciences	5-Apr-19
+L-056-18/1	Kirshenbaum, Arnold		ActivX Biosciences	5-Apr-19
+L-056-18/1	Metcalfe, Dean D		ActivX Biosciences	5-Apr-19
+L-136-04/2	Ohara, Junichi		Santa Cruz	10-Apr-19
+L-136-04/2	Paul, (b) (6) William E.		Santa Cruz	10-Apr-19
+L-108-07/1	Caldwell, Harlan D		Santa Cruz Biot., Inc.	10-Apr-19
+L-108-07/1	Morrison, Richard P.		Santa Cruz Biot., Inc.	10-Apr-19
+L-119-09/2	NIAID		Fundacao Butantan	10-Apr-19
<i>Note: L-119-09/2 split between FDA; NIAID</i>				
+L-119-09/2	Blaney, Jr., Joseph E		Fundacao Butantan	10-Apr-19
+L-119-09/2	Hanley, Kathryn		Fundacao Butantan	10-Apr-19
+L-119-09/2	Lai, Ching-Juh		Fundacao Butantan	10-Apr-19
+L-119-09/2	Murphy, Brian R.		Fundacao Butantan	10-Apr-19
+L-119-09/2	Whitehead, Stephen S.		Fundacao Butantan	10-Apr-19
<i>Note: L-119-09/2 split between FDA; NIAID</i>				
+L-044-08/1	Eisenbarth, (b) (6) George		Miltenyi Biotec GMBH	10-Apr-19
<i>Note: L-044-08/1 split between NHLBI; NIAID</i>				
+L-236-16/1	Akin, Cem		RBM	12-Apr-19
+L-236-16/1	Kirshenbaum, Arnold		RBM	12-Apr-19
+L-236-16/1	Metcalfe, Dean D		RBM	12-Apr-19
+L-236-16/1	Akin, Cem		RBM	12-Apr-19
+L-236-16/1	Kirshenbaum, Arnold		RBM	12-Apr-19
+L-236-16/1	Metcalfe, Dean D		RBM	12-Apr-19
+L-013-18/0	Benn, Steven I		MolMed SPA	12-Apr-19
+L-013-18/0	Folks, Thomas M		MolMed SPA	12-Apr-19
+L-013-18/0	Martin, Malcolm A		MolMed SPA	12-Apr-19
+L-013-18/0	Theodore, (b) (6) Theodore S		MolMed SPA	12-Apr-19
+L-044-18/0	Boyington, Jeffrey C.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Buchholz, Ursula		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Chen, Lei		ModernaTX, Inc.	12-Apr-19

(b) (3) (A), (b) (4), (b) (6)

+L-044-18/0	Chen, Man	(b)(4);	ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Chuang, Gwo-Yu	(b)(6)	ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Collins, Peter L.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Druz, Aliaksandr A.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Georgiev, Ivelin S.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Gorman, Jason		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Graham, Barney S.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Joyce, Michael G.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Kanekiyo, Masaru		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Kong, Wing-pui		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Kwong, Peter D.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Mascola, John R.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	McLellan, Jason Scott		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	OFEK, GILAD A		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Ou, Li		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Pancera, Marie L.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Sastry, Mallika		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Soto, Cinque		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Srivatsan, Sanjay R.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Stewart-Jones, Guillaume BE		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Thomas, Paul V.		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Xu, Kai		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	YANG, YONGPING		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Zhang, Baoshan		ModernaTX, Inc.	12-Apr-19
+L-044-18/0	Zhou, Tongqing		ModernaTX, Inc.	12-Apr-19
+L-154-19/0	Boyington, Jeffrey C.		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Chen, Lei		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Chen, Man		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Chuang, Gwo-Yu		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Georgiev, Ivelin S.		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Gorman, Jason		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Graham, Barney S.		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Joyce, Michael G.		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Kanekiyo, Masaru		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Kwong, Peter D.		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	McLellan, Jason Scott		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	OFEK, GILAD A		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Pancera, Marie L.		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Sastry, Mallika		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Soto, Cinque		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Srivatsan, Sanjay R.		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Stewart-Jones, Guillaume BE		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	YANG, YONGPING		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Zhang, Baoshan		OP Biotechnologies, Inc.	15-Apr-19
+L-154-19/0	Zhou, Tongqing		OP Biotechnologies, Inc.	15-Apr-19
+L-191-16/1	Akin, Cem		GlaxoSmithKline LLC	16-Apr-19
+L-191-16/1	Kirshenbaum, Arnold		GlaxoSmithKline LLC	16-Apr-19
+L-191-16/1	Metcalfe, Dean D		GlaxoSmithKline LLC	16-Apr-19
+L-154-06/0	Mackett, Michael		Meril Limited	19-Apr-19
+L-154-06/0	Moss, Bernard		Meril Limited	19-Apr-19
+L-154-06/0	Smith, Geoffrey L		Meril Limited	19-Apr-19

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License	Inventor Awards May	Net Remaining to IC
								Cumulative Income		
+L-140-98/1	Beeler, Judy A.	(b)(4);	SmithKline Beecham	2-May-19						(b) (3) (A), (b) (4), (b) (6)
+L-140-98/1	Chanock, (b) (6) Robert	(b)(6)	SmithKline Beecham	2-May-19						
+L-140-98/1	Coelingh, Kathleen L.		SmithKline Beecham	2-May-19						
+L-140-98/1	Collins, Peter L.		SmithKline Beecham	2-May-19						
+L-140-98/1	Murphy, Brian R.		SmithKline Beecham	2-May-19						
+L-170-98/2	Conrad, John T.		R-Biopharm GmbH	2-May-19						
+L-170-98/2	Lujan, Hugo D		R-Biopharm GmbH	2-May-19						
+L-170-98/2	Mowatt, Michael		R-Biopharm GmbH	2-May-19						
+L-170-98/2	Nash, Theodore		R-Biopharm GmbH	2-May-19						
+L-126-15/1	Chakrabarti, Bimal K		GlaxoSmithKline Biologicals, S.A.	2-May-19						
+L-126-15/1	Cheng, Cheng		GlaxoSmithKline Biologicals, S.A.	2-May-19						
+L-126-15/1	(b) (6) Clement K. Asiedu		GlaxoSmithKline Biologicals, S.A.	2-May-19						
+L-126-15/1	Huang, (b) (6) Yue		GlaxoSmithKline Biologicals, S.A.	2-May-19						
+L-126-15/1	Mackett, Michael		GlaxoSmithKline Biologicals, S.A.	2-May-19						
+L-126-15/1	Moss, Bernard		GlaxoSmithKline Biologicals, S.A.	2-May-19						
+L-126-15/1	Nabel, Gary J		GlaxoSmithKline Biologicals, S.A.	2-May-19						
+L-126-15/1	Smith, Geoffrey L		GlaxoSmithKline Biologicals, S.A.	2-May-19						
+L-126-15/1	Sullivan, Nancy J		GlaxoSmithKline Biologicals, S.A.	2-May-19						
+L-126-15/1	Yang, Zhi-Yong		GlaxoSmithKline Biologicals, S.A.	2-May-19						
<i>Note: L-126-15/1 split between CDC; NIAID</i>										
L-144-14/1	Baxa, Ulrich		Novartis	2-May-19						
+L-144-14/1	Boyington, Jeffrey C.		Novartis	2-May-19						
+L-144-14/1	Chen, Lei		Novartis	2-May-19						
+L-144-14/1	Chen, Man		Novartis	2-May-19						
+L-144-14/1	Chuang, Gwo-Yu		Novartis	2-May-19						
+L-144-14/1	Druz, Aliaksandr A.		Novartis	2-May-19						
L-144-14/1	Galen, Joseph Van		Novartis	2-May-19						
+L-144-14/1	Georgiev, Ivelin S.		Novartis	2-May-19						
+L-144-14/1	Gorman, Jason		Novartis	2-May-19						
+L-144-14/1	Graham, Barney S.		Novartis	2-May-19						
+L-144-14/1	Joyce, Michael G.		Novartis	2-May-19						
+L-144-14/1	Kanekiyo, Masaru		Novartis	2-May-19						
+L-144-14/1	Kong, Wing-pui		Novartis	2-May-19						
+L-144-14/1	Kwong, Peter D.		Novartis	2-May-19						
+L-144-14/1	Mascola, John R.		Novartis	2-May-19						
+L-144-14/1	McLellan, Jason Scott		Novartis	2-May-19						
+L-144-14/1	OFEK, GILAD A		Novartis	2-May-19						
+L-144-14/1	Ou, Li		Novartis	2-May-19						
+L-144-14/1	Pancera, Marie L.		Novartis	2-May-19						
L-144-14/1	Rundlet, Emily		Novartis	2-May-19						
+L-144-14/1	Sastry, Mallika		Novartis	2-May-19						
+L-144-14/1	Soto, Cinque		Novartis	2-May-19						
+L-144-14/1	Srivatsan, Sanjay R.		Novartis	2-May-19						
+L-144-14/1	Stewart-Jones, Guillaume BE		Novartis	2-May-19						
+L-144-14/1	Thomas, Paul V.		Novartis	2-May-19						
+L-144-14/1	Tsybovsky, Yaroslav		Novartis	2-May-19						
+L-144-14/1	YANG, YONGPING		Novartis	2-May-19						
+L-144-14/1	Zhang, Baoshan		Novartis	2-May-19						
+L-144-14/1	Zhou, Tongqing		Novartis	2-May-19						
+L-068-05/2	NIAID		Fundacao	2-May-19						

License	Inventor	Inventor Share %	Licensee	Date of Deposit	(b) (3) (A), (b) (4), (b) (6)	
+L-181-14/0	Fink, Doran	(b)(4);	nBios International Inc	8-May-19		
+L-181-14/0	Kubofcik, Joseph	(b)(6)	nBios International Inc	8-May-19		
+L-181-14/0	Nutman, Thomas B.		nBios International Inc	8-May-19		
<i>Note: L-181-14/0 split between NIAID; NIDCR</i>						
L-174-19/0	Boyd, Lisa		Maze Therapeutics, Inc	13-May-19		
+L-174-19/0	Margulies, David H		Maze Therapeutics, Inc	13-May-19		
L-174-19/0	Natarajan, Kannan		Maze Therapeutics, Inc	13-May-19		
L-174-19/0	Tilahun, Muluaelem		Maze Therapeutics, Inc	13-May-19		
<i>Note: L-174-19/0 split between FDA; NIAID</i>						
+L-056-18/1	Akin, Cem		ActivX Biosciences	13-May-19		
+L-056-18/1	Kirshenbaum, Arnold		ActivX Biosciences	13-May-19		
+L-056-18/1	Metcalfe, Dean D		ActivX Biosciences	13-May-19		
+L-312-01/0	Ohara, Junichi		Mabtech AB	15-May-19		
+L-312-01/0	Paul, (b) (6) William E.		Mabtech AB	15-May-19		
+L-152-19/0	Akin, Cem		Celltrion, Inc.	16-May-19		
+L-152-19/0	Kirshenbaum, Arnold		Celltrion, Inc.	16-May-19		
+L-152-19/0	Metcalfe, Dean D		Celltrion, Inc.	16-May-19		
+L-253-15/0	NIAID		Sun Biotech Pte., Ltd.	16-May-19		
+L-245-94/1	Folks, Thomas M	(b)(4);	Boston Biomedics	16-May-19		
+L-245-94/1	Martin, Malcolm A	(b)(6)	Boston Biomedics	16-May-19		
+L-245-94/1	Powell, Douglas M		Boston Biomedics	16-May-19		
<i>Note: L-245-94/1 split between NCI; NIAID</i>						
+L-170-98/2	Conrad, John T.		R-Biopharm GmbH	23-May-19		
+L-170-98/2	Lujan, Hugo D		R-Biopharm GmbH	23-May-19		
+L-170-98/2	Mowatt, Michael		R-Biopharm GmbH	23-May-19		
+L-170-98/2	Nash, Theodore		R-Biopharm GmbH	23-May-19		

NIH Patent Licensing Activities
NIAID
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	License			Inventor Awards June	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income		
+L-018-18/1	NIAID		Forte Biosciences Inc	2-Jun-19					(b) (3) (A), (b) (4), (b) (6)
+L-101-19/0	Blaney, Jr., Joseph E	(b)(4);	GlaxoSmithKline Biologicals	6-Jun-19					
+L-101-19/0	Hanley, Kathryn	(b)(6)	GlaxoSmithKline Biologicals	6-Jun-19					
+L-101-19/0	Lai, Ching-Juh		GlaxoSmithKline Biologicals	6-Jun-19					
+L-101-19/0	Murphy, Brian R.		GlaxoSmithKline Biologicals	6-Jun-19					
+L-101-19/0	Whitehead, Stephen S.		GlaxoSmithKline Biologicals	6-Jun-19					
<i>Note: L-101-19/0 split between FDA; NIAID</i>									
+L-101-19/0	Blaney, Jr., Joseph E		GlaxoSmithKline Biologicals	6-Jun-19					
+L-101-19/0	Hanley, Kathryn		GlaxoSmithKline Biologicals	6-Jun-19					
+L-101-19/0	Lai, Ching-Juh		GlaxoSmithKline Biologicals	6-Jun-19					
+L-101-19/0	Murphy, Brian R.		GlaxoSmithKline Biologicals	6-Jun-19					
+L-101-19/0	Whitehead, Stephen S.		GlaxoSmithKline Biologicals	6-Jun-19					
<i>Note: L-101-19/0 split between FDA; NIAID</i>									
+L-118-09/2	NIAID		Sinovac Biotech, Ltd.	10-Jun-19					

(b) (3) (A), (b) (4), (b) (6)

+L-043-18/0	Boyington, Jeffrey C.	(b)(4);	MedImmune	13-Jun-19
+L-043-18/0	Chen, Lei	(b)(6)	MedImmune	13-Jun-19
+L-043-18/0	Chen, Man		MedImmune	13-Jun-19
+L-043-18/0	Chuang, Gwo-Yu		MedImmune	13-Jun-19
+L-043-18/0	Georgiev, Ivelin S.		MedImmune	13-Jun-19
+L-043-18/0	Gorman, Jason		MedImmune	13-Jun-19
+L-043-18/0	Graham, Barney S.		MedImmune	13-Jun-19
+L-043-18/0	Joyce, Michael G.		MedImmune	13-Jun-19
+L-043-18/0	Kanekiyo, Masaru		MedImmune	13-Jun-19
+L-043-18/0	Kwong, Peter D.		MedImmune	13-Jun-19
+L-043-18/0	McLellan, Jason Scott		MedImmune	13-Jun-19
+L-043-18/0	OFEK, GILAD A		MedImmune	13-Jun-19
+L-043-18/0	Pancera, Marie L.		MedImmune	13-Jun-19
+L-043-18/0	Sastry, Mallika		MedImmune	13-Jun-19
+L-043-18/0	Soto, Cinque		MedImmune	13-Jun-19
+L-043-18/0	Srivatsan, Sanjay R.		MedImmune	13-Jun-19
+L-043-18/0	Stewart-Jones, Guillaume BE		MedImmune	13-Jun-19
+L-043-18/0	YANG, YONGPING		MedImmune	13-Jun-19
+L-043-18/0	Zhang, Baoshan		MedImmune	13-Jun-19
+L-043-18/0	Zhou, Tongqing		MedImmune	13-Jun-19
+L-080-04/1	Green, Kim Y.		R-Biopharm AG	20-Jun-19
+L-080-04/1	Sosnovtsev, Stanislav V		R-Biopharm AG	20-Jun-19
+L-197-05/5	Chanock, (b) (6) Robert		Serum Institute of India	21-Jun-19
+L-197-05/5	Hoshino, Yasutaka		Serum Institute of India	21-Jun-19
+L-197-05/5	Kapikian, (b) (6) Albert Z		Serum Institute of India	21-Jun-19
+L-191-16/1	Akin, Cem		GlaxoSmithKline LLC	27-Jun-19
+L-191-16/1	Kirshenbaum, Arnold		GlaxoSmithKline LLC	27-Jun-19
+L-191-16/1	Metcalfe, Dean D		GlaxoSmithKline LLC	27-Jun-19
+L-094-13/1	Ohta, Akio		Redoxtherapies Inc	27-Jun-19
+L-094-13/1	Sitkovsky, Michail V.		Redoxtherapies Inc	27-Jun-19

NIH Patent Licensing Activities

NIAID

July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License	Inventor Awards July	Net Remaining to IC
								Cumulative Income		
+L-079-93/2	Ohara, Junichi	(b)(4);	BD Biosciences - BD PharMingen	1-Jul-19						(b) (3) (A), (b) (4), (b) (6)
+L-079-93/2	Paul, (b) (6) William E.	(b)(6)	BD Biosciences - BD PharMingen	1-Jul-19						
+L-074-91/3	Harriman, Gregory R.		Becton Dickinson & Subsidiary PharMingen	1-Jul-19						
+L-074-91/3	Kunimoto, Dennis Y.		Becton Dickinson & Subsidiary PharMingen	1-Jul-19						
+L-074-91/3	Paul, (b) (6) William E.		Becton Dickinson & Subsidiary PharMingen	1-Jul-19						
+L-074-91/3	Strober, Warren		Becton Dickinson & Subsidiary PharMingen	1-Jul-19						
*+L-080-04/1	Green, Kim Y.		R-Biopharm AG	2-Jul-19						
*+L-080-04/1	Sosnovtsev, Stanislav V		R-Biopharm AG	2-Jul-19						
+L-170-98/2	Conrad, John T.		R-Biopharm GmbH	2-Jul-19						
+L-170-98/2	Lujan, Hugo D		R-Biopharm GmbH	2-Jul-19						
+L-170-98/2	Mowatt, Michael		R-Biopharm GmbH	2-Jul-19						
+L-170-98/2	Nash, Theodore		R-Biopharm GmbH	2-Jul-19						

(b) (3) (A), (b) (4), (b) (6)

+L-135-13/0	NIAID	Biologics	10-Jul-19
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>			
+L-170-98/2	Conrad, John T.	(b)(4); R-Biopharm GmbH	11-Jul-19
+L-170-98/2	Lujan, Hugo D	(b)(6) R-Biopharm GmbH	11-Jul-19
+L-170-98/2	Mowatt, Michael	R-Biopharm GmbH	11-Jul-19
+L-170-98/2	Nash, Theodore	R-Biopharm GmbH	11-Jul-19
+L-147-19/0	NIAID	Mapp Biopharmaceutical, Inc.	12-Jul-19
+L-147-19/0	NIAID	Mapp Biopharmaceutical, Inc.	12-Jul-19
+L-147-19/0	NIAID	Mapp Biopharmaceutical, Inc.	12-Jul-19
*+L-191-19/0	Akahata, Wataru	(b)(4); Redbiotec AG	16-Jul-19
*+L-191-19/0	Cheng, Cheng	(b)(6) Redbiotec AG	16-Jul-19
*+L-191-19/0	Merritt, Joshua S.	Redbiotec AG	16-Jul-19
*+L-191-19/0	Nabel, Gary J	Redbiotec AG	16-Jul-19
*+L-191-19/0	Rao, Srinivas	Redbiotec AG	16-Jul-19
*+L-191-19/0	Schwartz, Richard M.	Redbiotec AG	16-Jul-19
*+L-191-19/0	Yang, Zhi-Yong	Redbiotec AG	16-Jul-19
*+L-130-05/2	NIAID	Biological E Limited	23-Jul-19
*+L-009-06/0	Collins, Peter L.	(b)(4); Apath, LLC	25-Jul-19
*+L-102-07/1	Eisenbarth, (b) (6) George	(b)(6) Life Technologies Corporation	30-Jul-19
<i>Note: L-102-07/1 split between NHLBI; NIAID</i>			

NIH Patent Licensing Activities
NIAID
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann.	Patent	Total August	License	Inventor Awards August	Net Remaining to IC	
					Min./Exec. Fee	Prosecution Costs	Income	Cumulative Income			
+L-115-00/2	Cheung, Yiu Chong Gordon	(b)(4);	List Biological Laboratories, Inc.	1-Aug-19						(b) (3) (A), (b) (4), (b) (6)	
+L-115-00/2	Gupta, Pradeep K.	(b)(6)	List Biological Laboratories, Inc.	1-Aug-19							
+L-115-00/2	Hsu, Su-Cheng Dana		List Biological Laboratories, Inc.	1-Aug-19							
+L-115-00/2	Hu, Haijing		List Biological Laboratories, Inc.	1-Aug-19							
+L-115-00/2	Leppla, Stephen H.		List Biological Laboratories, Inc.	1-Aug-19							
+L-115-00/2	Leysath, Clinton E.		List Biological Laboratories, Inc.	1-Aug-19							
+L-115-00/2	Moayeri, Mahtab		List Biological Laboratories, Inc.	1-Aug-19							
+L-115-00/2	Pomerantsev, Andrei P		List Biological Laboratories, Inc.	1-Aug-19							
<i>Note: L-115-00/2 split between NIAID; NIDCR</i>											
+L-119-09/2	Blaney, Jr., Joseph E		Fundacao Butantan	1-Aug-19							
+L-119-09/2	Hanley, Kathryn		Fundacao Butantan	1-Aug-19							
+L-119-09/2	Lai, Ching-Juh		Fundacao Butantan	1-Aug-19							
+L-119-09/2	Murphy, Brian R.		Fundacao Butantan	1-Aug-19							
+L-119-09/2	Whitehead, Stephen S.		Fundacao Butantan	1-Aug-19							
<i>Note: L-119-09/2 split between FDA; NIAID</i>											
+L-111-15/1	NIAID		Codagenix Inc.	1-Aug-19							
+L-225-94/4	Siebenlist, Ulrich	(b)(4);	Upstate	1-Aug-19							

+L-200-19/0	NIAID		Octapharma Biopharmaceuticals GmbH	6-Aug-19
+L-078-11/0	Mackett, Michael	(b)(4);	CEVA Biomune	6-Aug-19
+L-078-11/0	Moss, Bernard	(b)(6)	CEVA Biomune	6-Aug-19
+L-078-11/0	Smith, Geoffrey L		CEVA Biomune	6-Aug-19
*+L-200-19/0	Emerson, Suzanne U.		Octapharma Biopharmaceuticals GmbH	6-Aug-19
*+L-200-19/0	Nguyen, Hanh T.		Octapharma Biopharmaceuticals GmbH	6-Aug-19
*+L-200-19/0	Purcell, Robert H		Octapharma Biopharmaceuticals GmbH	6-Aug-19
+L-200-19/0	(b)(4)		Octapharma Biopharmaceuticals GmbH	6-Aug-19
*+L-200-19/0	Shukla Bajpai, Priyanka		Octapharma Biopharmaceuticals GmbH	6-Aug-19
+L-110-04/1	Blaney, Jr., Joseph E		Biological E. Ltd.	16-Aug-19
+L-110-04/1	Hanley, Kathryn		Biological E. Ltd.	16-Aug-19
+L-110-04/1	Lai, Ching-Juh		Biological E. Ltd.	16-Aug-19
+L-110-04/1	Murphy, Brian R.		Biological E. Ltd.	16-Aug-19
+L-110-04/1	Whitehead, Stephen S.		Biological E. Ltd.	16-Aug-19
<i>Note: L-110-04/1 split between FDA; NIAID</i>				
+L-130-05/2	Chanock, (b)(6) Robert		Biological E Limited	16-Aug-19
+L-130-05/2	Hoshino, Yasutaka		Biological E Limited	16-Aug-19
+L-130-05/2	Kapikian, (b)(6) Albert Z		Biological E Limited	16-Aug-19
+L-130-05/2	NIAID		Biological E Limited	16-Aug-19
+L-102-07/1	Eisenbarth, (b)(6) George	(b)(4);	Life Technologies Corporation	20-Aug-19
<i>Note: L-102-07/1 split between NHLBI; NIAID</i>				
+L-226-14/1	Nutman, Thomas B.	(b)(6)	Focus Diagnostics, Inc.	23-Aug-19
+L-154-06/0	Mackett, Michael		Meril Limited	29-Aug-19
+L-154-06/0	Moss, Bernard		Meril Limited	29-Aug-19
+L-154-06/0	Smith, Geoffrey L		Meril Limited	29-Aug-19
+L-068-04/2	NIAID		Jennerex, LLC	30-Aug-19
<i>Note: L-068-04/2 split between NCI; NIAID</i>				

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIAID
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	September 2019			License Cumulative Income	Inventor Awards September	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income			
*+L-162-08/1	Sun, Peter D	(b)(4);	BioLegend	3-Sep-19						(b) (3) (A), (b) (4), (b) (6)
*+L-162-08/1	Zou, Zhongcheng	(b)(6)	BioLegend	3-Sep-19						
<i>Note: L-162-08/1 split between NCI; NIAID</i>										
*+L-221-16/1	Bermingham, Alison		Sanofi Pasteur	9-Sep-19						
*+L-221-16/1	Buchholz, Ursula		Sanofi Pasteur	9-Sep-19						
*+L-221-16/1	Collins, Peter L.		Sanofi Pasteur	9-Sep-19						
*+L-221-16/1	Graham, Barney S.		Sanofi Pasteur	9-Sep-19						
*+L-221-16/1	Kwong, Peter D.		Sanofi Pasteur	9-Sep-19						
*+L-221-16/1	Liang, Bo		Sanofi Pasteur	9-Sep-19						
*+L-221-16/1	Luongo, Cindy L.		Sanofi Pasteur	9-Sep-19						
*+L-221-16/1	McCarty, Thomas Charles		Sanofi Pasteur	9-Sep-19						
*+L-221-16/1	McLellan, Jason Scott		Sanofi Pasteur	9-Sep-19						
*+L-221-16/1	Munir, Shirin		Sanofi Pasteur	9-Sep-19						

*+L-221-16/1	Murphy, Brian R.	(b)(4);	Sanofi Pasteur	9-Sep-19
*+L-221-16/1	Nutt, Anne S.	(b)(6)	Sanofi Pasteur	9-Sep-19
*+L-154-06/0	Mackett, Michael		Meril Limited	9-Sep-19
*+L-154-06/0	Moss, Bernard		Meril Limited	9-Sep-19
*+L-154-06/0	Smith, Geoffrey L		Meril Limited	9-Sep-19
*+L-245-19/0	Akin, Cem		Escent Pharmaceuticals	10-Sep-19
*+L-245-19/0	Kirshenbaum, Arnold		Escent Pharmaceuticals	10-Sep-19
*+L-245-19/0	Metcalfe, Dean D		Escent Pharmaceuticals	10-Sep-19
*L-244-19/0	De Wit, Emmie		Public Health Vaccines, LLC.	11-Sep-19
*L-244-19/0	DeBuysscher, Blair Lynn		Public Health Vaccines, LLC.	11-Sep-19
*L-244-19/0	fFIdmann, Heinrich Ulrich		Public Health Vaccines, LLC.	11-Sep-19
*L-244-19/0	Marzi, Andrea Maria		Public Health Vaccines, LLC.	11-Sep-19
*L-244-19/0	Prescott, Joseph		Public Health Vaccines, LLC.	11-Sep-19
*L-244-19/0	De Wit, Emmie		Public Health Vaccines, LLC.	11-Sep-19
*L-244-19/0	DeBuysscher, Blair Lynn		Public Health Vaccines, LLC.	11-Sep-19
*L-244-19/0	fFIdmann, Heinrich Ulrich		Public Health Vaccines, LLC.	11-Sep-19
*L-244-19/0	Marzi, Andrea Maria		Public Health Vaccines, LLC.	11-Sep-19
*L-244-19/0	Prescott, Joseph		Public Health Vaccines, LLC.	11-Sep-19

(b) (3) (A), (b) (4), (b) (6)

\$1,893,378.47	\$106,342.32	\$1,999,720.79	\$471,853.94	\$1,527,866.85
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* denotes an adjustment to fix a problem from a previous month

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIAMS
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-066-05/1	Kinet, Jean-Pierre	(b)(4);	President and Fellows of Harvard College	16-Apr-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-066-05/1 split between NIAMS; NIDCR</i>										
+L-171-19/0	Meylan, Francoise	(b)(4);	Bio X Cell	17-Apr-19						
+L-171-19/0	Siegel, Richard	(b)(6)	Bio X Cell	17-Apr-19						
L-171-19/0	Song, Yun-Jeong		Bio X Cell	17-Apr-19						
+L-066-05/1	Kinet, Jean-Pierre		President and Fellows of Harvard College	18-Apr-19						
<i>Note: L-066-05/1 split between NIAMS; NIDCR</i>										
+L-066-05/1	Kinet, Jean-Pierre	(b)(4);	President and Fellows of Harvard College	23-Apr-19						
<i>Note: L-066-05/1 split between NIAMS; NIDCR</i>										

NIH Patent Licensing Activities
NIAMS
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NIAMS
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NIAMS
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NIAMS
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-243-16/0	Rao, Mahendra S	(b)(4);	StemCell Technologies Inc.	9-Aug-19						(b) (3) (A), (b) (4), (b) (6)

Note: L-243-16/0 split between NHLBI; NIAMS

NIH Patent Licensing Activities
 NIAMS
 September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$39,704.96	\$0.00	\$39,704.96		\$8,952.82	\$30,752.14

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIBIB
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-214-18/0	Parekh, Sapun	(b)(4)	Yokogawa Electric Corporation	1-Apr-19						(b) (3) (A), (b) (4), (b) (6)
+L-214-18/0	Shroff, Hari	(b)(6)	Yokogawa Electric Corporation	1-Apr-19						
+L-214-18/0	York, Andrew G.		Yokogawa Electric Corporation	1-Apr-19						
<i>Note: L-214-18/0 split between NHLBI; NIBIB</i>										
+L-256-14/0	Parekh, Sapun		VisiTech International	4-Apr-19						
+L-256-14/0	Shroff, Hari		VisiTech International	4-Apr-19						
+L-256-14/0	York, Andrew G.		VisiTech International	4-Apr-19						
<i>Note: L-256-14/0 split between NHLBI; NIBIB</i>										
+L-187-14/0	Parekh, Sapun		Andor Technology PLC	24-Apr-19						
+L-187-14/0	Shroff, Hari		Andor Technology PLC	24-Apr-19						
+L-187-14/0	York, Andrew G.		Andor Technology PLC	24-Apr-19						
<i>Note: L-187-14/0 split between NHLBI; NIBIB</i>										

NIH Patent Licensing Activities
NIBIB
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NIBIB
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-187-14/0	NIBIB		Andor Technology PLC	24-Jun-19						(b) (3) (A), (b) (4)
<i>Note: L-187-14/0 split between NHLBI; NIBIB</i>										

NIH Patent Licensing Activities
NIBIB
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-318-01/0	NIBIB		Arcturus	2-Jul-19						(b) (3) (A), (b) (4)
<i>Note: L-318-01/0 split between CIT; NIBIB; NICHD</i>										

NIH Patent Licensing Activities
NIBIB
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-256-14/0	Parekh, Sapun	(b)(4);	VisiTech International	13-Aug-19						(b) (3) (A), (b) (4), (b) (6)
+L-256-14/0	Shroff, Hari	(b)(6)	VisiTech International	13-Aug-19						
+L-256-14/0	York, Andrew G.		VisiTech International	13-Aug-19						
<i>Note: L-256-14/0 split between NHLBI; NIBIB</i>										
+L-256-14/0	NIBIB		VisiTech International	13-Aug-19						
<i>Note: L-256-14/0 split between NHLBI; NIBIB</i>										

NIH Patent Licensing Activities
NIBIB
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
*+L-276-18/1	Chen, Xiaoyuan	(b)(4);	Molecular Targeting Technologies, Inc	4-Sep-19						(b) (3) (A), (b) (4), (b) (6)
*L-276-18/1	Weiss, Orit Jacobson	(b)(6)	Molecular Targeting Technologies, Inc	4-Sep-19						
*L-276-18/1	NIBIB		Molecular Targeting Technologies, Inc	4-Sep-19						
					\$50,072.17	\$68,427.00	\$118,499.17		\$13,343.60	\$105,155.57

* denotes an adjustment to fix a problem from a previous month
+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
 NICHHD
 April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Financials			License Cumulative Income	Inventor Awards April	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income			
+L-026-13/1	Blithe, Diana L.	(b)(4);	Preglem SA	1-Apr-19					(b) (3) (A), (b) (4), (b) (6)	
+L-026-13/1	Nieman, Lynnette K.	(b)(6)	Preglem SA	1-Apr-19						
+L-132-04/2	Klein, David C.		Santa Cruz Biotechnology Inc	10-Apr-19						
+L-132-04/2	Moffett, John R		Santa Cruz Biotechnology Inc	10-Apr-19						
+L-132-04/2	Namboodiri, Aryan M		Santa Cruz Biotechnology Inc	10-Apr-19						
+L-132-04/2	Roseboom, Patrick		Santa Cruz Biotechnology Inc	10-Apr-19						
+L-132-04/2	Weller, Joan		Santa Cruz Biotechnology Inc	10-Apr-19						

NIH Patent Licensing Activities
 NICHHD
 May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Financials			License Cumulative Income	Inventor Awards May	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income			
+L-280-14/1	Gandjbakhche, Amir H	(b)(4);	Arche Opitex Biomedical, Inc.	28-May-19					(b) (3) (A), (b) (4), (b) (6)	
+L-280-14/1	(b) (4)	(b)(6)	Arche Opitex Biomedical, Inc.	28-May-19						
L-280-14/1	Riley, Jason D.		Arche Opitex Biomedical, Inc.	28-May-19						
<i>Note: L-280-14/1 split between NICHHD; NINDS</i>										
L-076-08/0	NICHHD		Emergent Product Development Gaithersbur	28-May-19						
<i>Note: L-076-08/0 split between NICHHD; NIDCR; NIDDK</i>										
L-008-15/1	NICHHD		xMD Diagnostics, LLC	30-May-19						
<i>Note: L-008-15/1 split between CIT; NCI; NICHHD</i>										

NIH Patent Licensing Activities
 NICHHD
 June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Financials			License Cumulative Income	Inventor Awards June	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income			
L-167-17/0	NICHHD		Cyprium Therapeutics Inc.	5-Jun-19					(b) (3) (A), (b) (4), (b) (6)	
L-172-19/0	Romero, Roberto	(b)(4);	Genesis Theranostix Ltd.,	20-Jun-19						

NIH Patent Licensing Activities
 NICHHD
 July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	Financials			License Cumulative Income	Inventor Awards July	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income			
L-318-01/0	NICHHD		Arcturus	2-Jul-19					(b) (3) (A), (b) (4)	

Note: L-318-01/0 split between CIT; NIBIB; NICHD

L-135-13/0 NICHD Biologics 10-Jul-19
 Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK

*+L-138-93/2 Crouch, Robert J. (b)(4); Stratagene 23-Jul-19

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
 NICHD
 August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
*+L-008-15/1	NICHD		xMD Diagnostics, LLC	13-Aug-19						(b) (3) (A), (b) (4), (b) (6)
Note: L-008-15/1 split between CIT; NCI; NICHD										
+L-137-12/0	Ozato Dawid, Keiko	(b)(4);	Pierce Biotechnology	20-Aug-19						

NIH Patent Licensing Activities
 NICHD
 September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$43,757.99	\$60,895.90	\$104,653.89		\$13,892.88	\$90,761.01

* denotes an adjustment to fix a problem from a previous month

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDA
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
L-255-16/1	Conejero-Goldberg, Concha	(b)(4);	Applied Biological Materials Inc.	15-Apr-19						(b) (3) (A), (b) (4), (b) (6)
L-255-16/1	Dillion-Carter, Ora	(b)(6)	Applied Biological Materials Inc.	15-Apr-19						
L-255-16/1	Freed, William		Applied Biological Materials Inc.	15-Apr-19						
L-255-16/1	Giordano, Magda		Applied Biological Materials Inc.	15-Apr-19						
+L-255-16/1	Truckenmiller, Mary Ellen		Applied Biological Materials Inc.	15-Apr-19						
+L-162-16/3	NIDA		Inversago	25-Apr-19						
<i>Note: L-162-16/3 split between NIAAAA; NIDA</i>										
+L-162-16/3	NIDA		Inversago	25-Apr-19						
<i>Note: L-162-16/3 split between NIAAAA; NIDA</i>										

NIH Patent Licensing Activities
NIDA
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-070-03/2	Wise, Roy A	(b)(4);	Brainsway, Inc.	15-May-19						(b) (3) (A), (b) (4), (b) (6)
+L-070-03/2	Zangen, Abraham	(b)(6)	Brainsway, Inc.	15-May-19						
<i>Note: L-070-03/2 split between NIDA; NINDS</i>										

NIH Patent Licensing Activities
NIDA
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-162-16/3	NIDA		Inversago	27-Jun-19						(b) (3) (A), (b) (4)
<i>Note: L-162-16/3 split between NIAAAA; NIDA</i>										

NIH Patent Licensing Activities
NIDA
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
*+L-220-17/1	Kumar, Vivek	(b)(4);	Braeburn Pharmaceuticals Inc.	19-Jul-19						(b) (3) (A), (b) (4), (b) (6)
*+L-220-17/1	Newman, Amy H.	(b)(6)	Braeburn Pharmaceuticals Inc.	19-Jul-19						
*+L-220-17/1	Shaik, Anerbasha		Braeburn Pharmaceuticals Inc.	19-Jul-19						

(b) (3) (A), (b) (4), (b) (6)

*+L-245-17/1	Cao, Jianjing	(b)(4):	Braeburn Pharmaceuticals Inc.	19-Jul-19
*L-245-17/1	Cyriac, George C.	(b)(6)	Braeburn Pharmaceuticals Inc.	19-Jul-19
*+L-245-17/1	Grundt, Peter		Braeburn Pharmaceuticals Inc.	19-Jul-19
*+L-245-17/1	Newman, Amy H.		Braeburn Pharmaceuticals Inc.	19-Jul-19
L-245-17/1	(b) (4)		Braeburn Pharmaceuticals Inc.	19-Jul-19

NIH Patent Licensing Activities

NIDA

August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities

NIDA

September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
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					\$3,095.26	\$0.00	\$3,095.26		\$931.32	\$2,163.94
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* denotes an adjustment to fix a problem from a previous month

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDCD
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCD
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-084-10/0	Drayna, Dennis T.	(b)(4);	Senomyx Inc	16-May-19						(b) (3) (A), (b) (4), (b) (6)
+L-084-10/0	Kim, Un-kyung	(b)(6)	Senomyx Inc	16-May-19						
+L-084-10/0	(b) (4)		Senomyx Inc	16-May-19						

NIH Patent Licensing Activities
NIDCD
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCD
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NIDCD
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-214-92/8	RJ Wenthold	(b) (6)	(b)(4); (b)(6)	EMD Chemicals	1-Aug-19					(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities

NIDCD
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$34,673.35	\$0.00	\$34,673.35		\$7,803.22	\$26,870.13

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDCR
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-078-15/0	Chiorini, John A.	(b)(4);	Spark Therapeutics, Inc.	9-Apr-19						(b) (3) (A), (b) (4), (b) (6)
+L-078-15/0	Kaludov, Nikola	(b)(6)	Spark Therapeutics, Inc.	9-Apr-19						
+L-102-09/0	Siraganian, Reuben		Morphosys UK Ltd.	10-Apr-19						
+L-088-12/0	Chiorini, John A.		Sangamo BioSciences Inc	16-Apr-19						
<i>Note: L-088-12/0 split between NHLBI; NIDCR</i>										
+L-066-05/1	Siraganian, Reuben		President and Fellows of Harvard College	16-Apr-19						
<i>Note: L-066-05/1 split between NIAMS; NIDCR</i>										
+L-066-05/1	Siraganian, Reuben		President and Fellows of Harvard College	18-Apr-19						
<i>Note: L-066-05/1 split between NIAMS; NIDCR</i>										
+L-066-05/1	Siraganian, Reuben		President and Fellows of Harvard College	23-Apr-19						
<i>Note: L-066-05/1 split between NIAMS; NIDCR</i>										

NIH Patent Licensing Activities
NIDCR
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
+L-152-17/0	Akiyama, Steven	(b)(4);	EMD Millipore Corporation	2-May-19						(b) (3) (A), (b) (4), (b) (6)
+L-152-17/0	Yamada, Kenneth	(b)(6)	EMD Millipore Corporation	2-May-19						
+L-152-17/0	Yamada, Susan Sleeper		EMD Millipore Corporation	2-May-19						
+L-181-14/0	Burbelo, Peter D.		nBios International Inc	8-May-19						
<i>Note: L-181-14/0 split between NIAID; NIDCR</i>										
+L-076-08/0	NIDCR		Emergent Product Development Gaithersbur	28-May-19						
<i>Note: L-076-08/0 split between NICHD; NIDCR; NIDDK</i>										

NIH Patent Licensing Activities
NIDCR
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-268-99/1	Kleinman, Hynda	(b)(4);	RegenerX Biopharma	13-Jun-19						(b) (3) (A), (b) (4), (b) (6)
+L-268-99/1	Malinda, Katherine M	(b)(6)	RegenerX Biopharma	13-Jun-19						

NIH Patent Licensing Activities

NIDCR
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
*+L-179-19/0	Kulkarni, Ashok	(b)(4);	Codexis, Inc.	5-Jul-19						(b) (3) (A), (b) (4), (b) (6)
*+L-179-19/0	Ohshima, Toshio	(b)(6)	Codexis, Inc.	5-Jul-19						
<i>Note: L-179-19/0 split between NIDCR; NINDS</i>										
*+L-135-13/0	NIDCR		Biologics	10-Jul-19						
<i>Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK</i>										

NIH Patent Licensing Activities
NIDCR
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-115-00/2	Leppla, Stephen H.	(b)(4);	List Biological Laboratories, Inc.	1-Aug-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-115-00/2 split between NIAID; NIDCR</i>										
+L-343-01/0	Keith, Jerry M	(b)(6)	List Biological Laboratories, Inc.	1-Aug-19						
+L-343-01/0	Merkel, Todd J.		List Biological Laboratories, Inc.	1-Aug-19						
+L-343-01/0	Yang, Xiaoming		List Biological Laboratories, Inc.	1-Aug-19						
+L-343-01/0	Keith, Jerry M		List Biological Laboratories, Inc.	1-Aug-19						
+L-343-01/0	Merkel, Todd J.		List Biological Laboratories, Inc.	1-Aug-19						
+L-343-01/0	Yang, Xiaoming		List Biological Laboratories, Inc.	1-Aug-19						
+L-152-17/0	Akiyama, Steven		EMD Millipore Corporation	1-Aug-19						
+L-152-17/0	Yamada, Kenneth		EMD Millipore Corporation	1-Aug-19						
+L-152-17/0	Yamada, Susan Sleeper		EMD Millipore Corporation	1-Aug-19						

NIH Patent Licensing Activities
NIDCR
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
*+L-263-18/0	Chiorini, John A.	(b)(4); (b)	MeiraGTx	11-Sep-19						(b) (3) (A), (b) (4), (b) (6)

\$155,809.20	\$3,395.73	\$159,204.93	\$38,724.31	\$120,480.62
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* denotes an adjustment to fix a problem from a previous month
+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIDDK
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License	Inventor Awards April	Net Remaining to IC	
								Cumulative Income			
+L-215-15/0	Kopp, Jeffrey B	(b)(4);	Applied Biological Materials, Inc.	1-Apr-19						(b) (3) (A), (b) (4), (b) (6)	
L-215-15/0	Sakairi, Toru	(b)(6)	Applied Biological Materials, Inc.	1-Apr-19							
+L-265-02/0	Jacobson, Kenneth A		Tocris Cookson, Ltd.	25-Apr-19							
<i>Note: L-265-02/0 split between NCI; NIDDK</i>											
+L-283-17/0	Jacobson, Kenneth A		Tocris Cookson Ltd.	25-Apr-19							
+L-283-17/0	Tosh, Dilip K.		Tocris Cookson Ltd.	25-Apr-19							

NIH Patent Licensing Activities
NIDDK
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License	Inventor Awards May	Net Remaining to IC
								Cumulative Income		
+L-155-07/1	Daly, (b) (6) John W	(b)(4);	Latoxan S.A.S.	21-May-19						(b) (3) (A), (b) (4), (b) (6)
+L-076-08/0	NIDDK		Emergent Product Development Gaithersbur	28-May-19						
<i>Note: L-076-08/0 split between NICHD; NIDCR; NIDDK</i>										

NIH Patent Licensing Activities
NIDDK
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License	Inventor Awards June	Net Remaining to IC	
								Cumulative Income			
+L-140-19/0	Padlan, Eduardo	(b)(4);	PercepTx, Inc.	4-Jun-19						(b) (3) (A), (b) (4), (b) (6)	
<i>Note: L-140-19/0 split between NCI; NIDDK</i>											
+L-010-02/1	Sauer, Brian	(b)(6)	Sigma-Aldrich	10-Jun-19							
*L-196-19/0	Gershengorn, Marvin		Nuralis Pharmaceuticals, Inc	10-Jun-19							
*L-196-19/0	Huang, Wei		Nuralis Pharmaceuticals, Inc	10-Jun-19							
*L-196-19/0	Neumann, Susanne		Nuralis Pharmaceuticals, Inc	10-Jun-19							
*L-196-19/0	Raaka, Bruce		Nuralis Pharmaceuticals, Inc	10-Jun-19							
<i>Note: L-196-19/0 split between NCATS; NIDDK</i>											
L-196-19/0	Gershengorn, Marvin	(b)(4);	Nuralis Pharmaceuticals, Inc	13-Jun-19							
L-196-19/0	Huang, Wei	(b)(6)	Nuralis Pharmaceuticals, Inc	13-Jun-19							
L-196-19/0	Neumann, Susanne		Nuralis Pharmaceuticals, Inc	13-Jun-19							
L-196-19/0	Raaka, Bruce		Nuralis Pharmaceuticals, Inc	13-Jun-19							
<i>Note: L-196-19/0 split between NCATS; NIDDK</i>											
+L-145-19/0	Schechter, Alan N.	(b)(4);	Globin Solutions, Inc	13-Jun-19							

Note: L-145-19/0 split between CC; NHLBI; NIDDK; NINDS

+L-047-18/0 Proia, Richard L (b)(4); Recursion

20-Jun-19

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIDDK
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
+L-135-13/0	NIDDK		Biologics	10-Jul-19						(b) (3) (A), (b) (4), (b) (6)

Note: L-135-13/0 split between NIAID; NICHD; NIDCR; NIDDK

*+L-204-99/1 Jacobson, Kenneth A (b)(4); (b)(6) University of Virginia Patent Found.

24-Jul-19

NIH Patent Licensing Activities
NIDDK
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-149-17/0	Oral, Elif A.	(b)(4);	Aegerion Pharmaceuticals, Inc.	14-Aug-19						(b) (3) (A), (b) (4), (b) (6)
+L-149-17/0	Taylor, Simeon	(b)(6)	Aegerion Pharmaceuticals, Inc.	14-Aug-19						

NIH Patent Licensing Activities
NIDDK
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-240-17/0	NIDDK		United Therapeutics Corporation	4-Sep-19						(b) (3) (A), (b) (4)

Note: L-240-17/0 split between CC; NHLBI; NIDDK; NINDS

\$42,121.55	\$465.90	\$42,587.45	\$14,945.88	\$27,641.57
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* denotes an adjustment to fix a problem from a previous month
+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIEHS
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-063-93/2	Eddy, Edward	(b)(4); (b)(6)	ThermoFisher	1-Apr-19						(b) (3) (A), (b) (4), (b) (6)
+L-036-15/2	Copeland, William		Alnylam Pharmaceuticals	22-Apr-19						
+L-036-15/2	Kasiviswanathan, Rajesh		Alnylam Pharmaceuticals	22-Apr-19						
+L-036-15/2	Lim, Susan E.		Alnylam Pharmaceuticals	22-Apr-19						

NIH Patent Licensing Activities
NIEHS
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NIEHS
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-063-93/2	Eddy, Edward	(b)(4); (b)(6)	ThermoFisher	21-Jun-19						(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIEHS
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
*+L-134-13/1	Mishina, Yuji	(b)(4); (b)(6)	Clementia Pharmaceuticals Inc	25-Jul-19						(b) (3) (A), (b) (4), (b) (6)
*+L-134-13/1	Ray, Manas K.		Clementia Pharmaceuticals Inc	25-Jul-19						
*+L-134-13/1	Scott, Gregory J.		Clementia Pharmaceuticals Inc	25-Jul-19						

NIH Patent Licensing Activities
NIEHS
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
+L-042-01/3	Beckley, Amy J.	(b)(4); (b)(6)	Pierce Biotechnology	8-Aug-19						(b) (3) (A), (b) (4), (b) (6)

+L-042-01/3 Cidlowski, John A.

(b)(4): (b) Pierce Biotechnology

8-Aug-19

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
NIEHS
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
					\$58,010.57	\$0 00	\$58,010.57		\$13,543.24	\$44,467.33

* denotes an adjustment to fix a problem from a previous month

+ denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NIMH
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	April 2019			License Cumulative Income	Inventor Awards April	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income			
+L-236-18/0	Ginns, Edward I.	(b)(4);	Idorsia Pharmaceuticals	8-Apr-19					(b) (3) (A), (b) (4), (b) (6)	
+L-236-18/0	LaMarca, Mary	(b)(6)	Idorsia Pharmaceuticals	8-Apr-19						
+L-328-17/0	Cohen, Robert M.		PsychoGenics Inc.	23-Apr-19						
L-328-17/0	Ye, Daniel		PsychoGenics Inc.	23-Apr-19						

NIH Patent Licensing Activities
NIMH
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	May 2019			License Cumulative Income	Inventor Awards May	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income			
+L-261-16/0	Eiden, Maribeth V.	(b)(4);	Fred Hutchinson Cancer Research Center	1-May-19					(b) (3) (A), (b) (4), (b) (6)	
+L-261-16/0	Wilson, Carolyn A.	(b)(6)	Fred Hutchinson Cancer Research Center	1-May-19						
+L-018-10/0	Manji, Hussein K.		Mount Sinai Med Cntr	29-May-19						
+L-018-10/0	Zarate, Carlos A.		Mount Sinai Med Cntr	29-May-19						

NIH Patent Licensing Activities
NIMH
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	June 2019			License Cumulative Income	Inventor Awards June	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income			
*+L-064-10/1	Hu, Huaizhong	(b)(4);	Angimmune LLC	1-Jun-19					(b) (3) (A), (b) (4), (b) (6)	
*+L-064-10/1	Liu, Yuan Yi	(b)(6)	Angimmune LLC	1-Jun-19						
*+L-064-10/1	Ma, Shenglin		Angimmune LLC	1-Jun-19						
*+L-064-10/1	Neville, David		Angimmune LLC	1-Jun-19						
*+L-064-10/1	Scharff, Joshua		Angimmune LLC	1-Jun-19						
*+L-064-10/1	Thompson, Jerry		Angimmune LLC	1-Jun-19						
+L-064-10/1	(b) (4)		Angimmune LLC	1-Jun-19						
+L-064-10/1	(b) (4)		Angimmune LLC	1-Jun-19						
*+L-064-10/1	Woo, Jung-Hee		Angimmune LLC	1-Jun-19						

NIH Patent Licensing Activities
NIMH
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	July 2019			License Cumulative Income	Inventor Awards July	Net Remaining to IC
					% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income			
*+L-088-17/0	Cohen, Robert M.	(b)(4);	Eli Lilly and Company	16-Jul-19					(b) (3) (A), (b) (4), (b) (6)	
*L-088-17/0	Ye, Daniel	(b)(6)	Eli Lilly and Company	16-Jul-19						

NIH Patent Licensing Activities
 NIMH
 August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
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NIH Patent Licensing Activities
 NIMH
 September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
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+L-025-17/1 Zarate, Carlos A. (b)(4); (b) Tocris Bioscience 13-Sep-19 [REDACTED] (b) (3) (A), (b) (4), (b) (6)
 Note: L-025-17/1 split between NCATS; NIA; NIMH

\$497,908.35	\$0.00	\$497,908.35	\$127,461.03	\$370,447.32
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 + denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NINDS
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
+L-130-02/1	Hsu, Yite	(b)(4);	Santa Cruz Biotechnology Inc	10-Apr-19						(b) (3) (A), (b) (4), (b) (6)
+L-130-02/1	Youle, Richard J.	(b)(6)	Santa Cruz Biotechnology Inc	10-Apr-19						
+L-031-04/1	Hou, Jean		Santa Cruz Biotechnology	10-Apr-19						
+L-031-04/1	Major, Eugene O		Santa Cruz Biotechnology	10-Apr-19						
+L-031-04/1	Messam, Conrad A		Santa Cruz Biotechnology	10-Apr-19						
+L-031-04/1	Hou, Jean		Santa Cruz Biotechnology	10-Apr-19						
+L-031-04/1	Major, Eugene O		Santa Cruz Biotechnology	10-Apr-19						
+L-031-04/1	Messam, Conrad A		Santa Cruz Biotechnology	10-Apr-19						
+L-123-04/2	Hsu, Yite		Santa Cruz Biotechnology Inc	10-Apr-19						
+L-123-04/2	Youle, Richard J.		Santa Cruz Biotechnology Inc	10-Apr-19						
+L-123-04/2	Hsu, Yite		Santa Cruz Biotechnology Inc	10-Apr-19						
+L-123-04/2	Youle, Richard J.		Santa Cruz Biotechnology Inc	10-Apr-19						

NIH Patent Licensing Activities
NINDS
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC	
+L-181-04/2	Hou, Jean	(b)(4);	Immuquest Ltd	14-May-19						(b) (3) (A), (b) (4), (b) (6)	
+L-181-04/2	Major, Eugene O	(b)(6)	Immuquest Ltd	14-May-19							
+L-181-04/2	Messam, Conrad A		Immuquest Ltd	14-May-19							
+L-070-03/2	Hallett, Mark		Brainsway, Inc.	15-May-19							
+L-070-03/2	Miranda, Pedro		Brainsway, Inc.	15-May-19							
+L-070-03/2	Roth, Yiftach		Brainsway, Inc.	15-May-19							
<i>Note: L-070-03/2 split between NIDA; NINDS</i>											
+L-144-08/1	Hou, Jean		eBioscience	20-May-19							
+L-144-08/1	Major, Eugene O		eBioscience	20-May-19							
+L-144-08/1	Messam, Conrad A		eBioscience	20-May-19							
+L-144-08/1	Hou, Jean		eBioscience	20-May-19							
+L-144-08/1	Major, Eugene O		eBioscience	20-May-19							
+L-144-08/1	Messam, Conrad A		eBioscience	20-May-19							
+L-280-14/1	Amyot, Franck		Arche Opitex Biomedical, Inc.	28-May-19							
+L-280-14/1	Wasserman, Eric M.		Arche Opitex Biomedical, Inc.	28-May-19							
<i>Note: L-280-14/1 split between NICHD; NINDS</i>											
+L-083-11/0	Bielekova, Bibiana B		Abbott Biotherapeutics Corp.	29-May-19							

+L-083-11/0 Martin, Roland (b)(4); (b) Abbott Biotherapeutics Corp. 29-May-19
 +L-083-11/0 McFarland, Henry F. (6) Abbott Biotherapeutics Corp. 29-May-19
 Note: L-083-11/0 split between NCI; NINDS

(b) (3) (A), (b) (4), (b) (6)

NIH Patent Licensing Activities
 NINDS
 June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
+L-121-08/0	Bankiewicz, Krystof S.	(b)(4);	Medtronic Inc	7-Jun-19						(b) (3) (A), (b) (4), (b) (6)
+L-121-08/0	Lonser, Russell R	(b)(6)	Medtronic Inc	7-Jun-19						
+L-121-08/0	Oldfield, (b) (6) Edward H.		Medtronic Inc	7-Jun-19						
Note: L-121-08/0 split between NCI; NINDS										
+L-087-99/1	Hsu, Yite		Sigma Israel Chemicals, LTD	10-Jun-19						
+L-087-99/1	Youle, Richard J.		Sigma Israel Chemicals, LTD	10-Jun-19						
+L-145-19/0	Oldfield, (b) (6) Edward H.		Globin Solutions, Inc	13-Jun-19						
+L-145-19/0	Pluta, Ryszard M		Globin Solutions, Inc	13-Jun-19						
Note: L-145-19/0 split between CC; NHLBI; NIDDK; NINDS										
+L-144-08/1	Hou, Jean	(b)(4);	eBioscience	21-Jun-19						
+L-144-08/1	Major, Eugene O	(b)(6)	eBioscience	21-Jun-19						
+L-144-08/1	Messam, Conrad A		eBioscience	21-Jun-19						

NIH Patent Licensing Activities
 NINDS
 July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
*+L-179-19/0	Brady, (b) (6) Roscoe O	(b)(4);	Codexis, Inc.	5-Jul-19						(b) (3) (A), (b) (4), (b) (6)
*+L-179-19/0	Murray, Gary J	(b)(6)	Codexis, Inc.	5-Jul-19						
Note: L-179-19/0 split between NIDCR; NINDS										
*+L-121-08/0	NINDS		Medtronic Inc	30-Jul-19						
Note: L-121-08/0 split between NCI; NINDS										

NIH Patent Licensing Activities
 NINDS
 August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
*+L-132-17/0	NINDS		CereDx Inc.	21-Aug-19						(b) (3) (A), (b) (4)
Note: L-132-17/0 split between NIA; NINDS; NINR										

L-132-17/0 Warach, Steven J.
 Note: L-132-17/0 split between NIA; NINDS; NINR

(b)(4);
 (b)(6)

CereDx Inc.

21-Aug-19

(b) (3) (A), (b) (4), (b) (6)

+L-083-11/0 Bielekova, Bibiana B
 +L-083-11/0 Martin, Roland
 +L-083-11/0 McFarland, Henry F.
 Note: L-083-11/0 split between NCI; NINDS

Abbott Biotherapeutics Corp.
 Abbott Biotherapeutics Corp.
 Abbott Biotherapeutics Corp.

28-Aug-19
 28-Aug-19
 28-Aug-19

NIH Patent Licensing Activities
 NINDS
 September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
+L-240-17/0	NINDS		United Therapeutics Corporation	4-Sep-19						(b) (3) (A), (b) (4)
					\$48,947.59	\$7,567.00	\$56,514.59		\$19,187.73	\$37,326.86

* denotes an adjustment to fix a problem from a previous month
 + denotes a manual adjustment which has already been paid to the inventor

NIH Patent Licensing Activities
NINR
April 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total April Income	License Cumulative Income	Inventor Awards April	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
May 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total May Income	License Cumulative Income	Inventor Awards May	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
June 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total June Income	License Cumulative Income	Inventor Awards June	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
July 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total July Income	License Cumulative Income	Inventor Awards July	Net Remaining to IC
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NIH Patent Licensing Activities
NINR
August 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total August Income	License Cumulative Income	Inventor Awards August	Net Remaining to IC
L-132-17/0	NINR		CereDx Inc.	21-Aug-19						(b) (3) (A), (b) (4), (b) (6)
<i>Note: L-132-17/0 split between NIA; NINDS; NINR</i>										
+L-132-17/0	Barr, Taura L.	(b)(4);	CereDx Inc.	21-Aug-19						
+L-132-17/0	(b) (4)	(b)(6)	CereDx Inc.	21-Aug-19						
<i>Note: L-132-17/0 split between NIA; NINDS; NINR</i>										

NIH Patent Licensing Activities

NINR
September 2019

License	Inventor	Inventor Share %	Licensee	Date of Deposit	% of Sales/Ann. Min./Exec. Fee	Patent Prosecution Costs	Total September Income	License Cumulative Income	Inventor Awards September	Net Remaining to IC
-										(b) (3) (A), (b) (4), (b) (6)
=										

+ denotes a manual adjustment which has already been paid to the inventor