

## TRADEMARK ASSIGNMENT COVER SHEET

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ETAS ID: TM367448

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
MIDCAP FINANCIAL TRUST, AS AGENT FOR LENDERS		12/23/2015	TRUST:
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	THERACLONE SCIENCES, INC.		
<b>Street Address:</b>	1124 COLUMBIA STREET		
<b>Internal Address:</b>	SUITE 300		
<b>City:</b>	SEATTLE		
<b>State/Country:</b>	WASHINGTON		
<b>Postal Code:</b>	98104		
<b>Entity Type:</b>	CORPORATION: DELAWARE		
<b>PROPERTY NUMBERS Total: 3</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	3680336	I-STAR	
<b>Registration Number:</b>	4388327	THERACLONE SCIENCES	
<b>Registration Number:</b>	3952304	THERACLONE SCIENCES	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	7037125050		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>			
<b>Phone:</b>	703-712-5352		
<b>Email:</b>	jmiller@mcguirewoods.com		
<b>Correspondent Name:</b>	Joyce Miller		
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<b>ATTORNEY DOCKET NUMBER:</b>	2061695-0014		
<b>NAME OF SUBMITTER:</b>	Joyce Miller		
<b>SIGNATURE:</b>	/Joyce Miller/		
<b>DATE SIGNED:</b>	12/30/2015		
<b>Total Attachments: 29</b>			

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## RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY

THIS RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY (this "Release") is made as of December 23, 2015 ("Effective Date"), by MIDCAP FINANCIAL TRUST ("Grantee"), in favor of THERACLONE SCIENCES, INC., (the "Grantor").

WHEREAS, pursuant to the terms and conditions of that certain Intellectual Property Security Agreement dated as of October 1, 2015 (the "IP Security Agreement"), Grantors assigned, transferred and conveyed to Grantee, and granted to Grantee, a security interest in all of Grantors' right, title and interest in and to the Intellectual Property Collateral (as defined in the IP Security Agreement, the "Intellectual Property Collateral");

WHEREAS, the IP Security Agreement was recorded with the United States Patent and Trademark Office at Reel 037146, Frame 0817 and Reel 5672, Frame 0727.

WHEREAS, Grantee has agreed to release its lien on all of the Intellectual Property Collateral, including but not limited to, the patents listed on Schedule 1 hereto (collectively, the "Released IP Collateral");

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantee hereby covenants and agrees as follows:

1. Grantee's mortgage, pledge, and hypothecation and lien on and security interest in the Released IP Collateral is hereby terminated and released.

2. To the extent Grantee retains any such interest, Grantee hereby assigns, transfers and conveys to Grantors, all of Grantee's right, title and interest, now owned or hereinafter acquired, that it may have whether by assignment or otherwise, in and to any mortgage and continuing security interest and collateral assignment in the Released IP Collateral. Such assignment, transfer and conveyance by Grantee is made without any representation or warranty (express or implied) by Grantee.

3. Grantee hereby agrees to execute, acknowledge and deliver all such further instruments and to take all such further actions as may be reasonably requested or are required in order to more fully and effectively carry out the purposes of this Release, all at the expense of Grantors. Grantee authorizes Grantors (or their agents) to file such documentation as is necessary to effect the releases of the Intellectual Property Collateral granted hereunder.

4. Delivery of an executed signature page to this Release by facsimile or other electronic transmission shall be effective as delivery of a manually executed signature page of this Release.

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IN WITNESS WHEREOF, Grantee has caused this Release to be executed by its duly authorized representative as of the Effective Date.

MIDCAP FINANCIAL TRUST  
as Agent for Lenders

By: Apollo Capital Management, L.P.,  
its investment manager

By: Apollo Capital Management GP, LLC,  
its general partner

By:  (SEAL)  
Name: Maurice Amsellem  
Title: Authorized Signatory

**Schedule 1**

[See attached]

EXHIBIT A

Copyrights

None.

EXHIBIT B

Patents

[See attached]

**THE RACLONE CASE LIST**

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-003/N01AU 316188-2019	37418- 503N01AU	PCT	Granted	2008321016 (Patent No. 2008321016)	12-Nov-2008	Australia	Compositions And Methods For The Therapy And Diagnosis Of Influenza	Influenza M2e: Compositions and Methods for the Therapy and Diagnosis of Influenza: Encompasses antibodies 8110, 21B15 and 23K12. Also encompasses epitopes linear and non-linear epitopes of the M2e polypeptide, and specifically, comprises the amino-terminal region of the M2e polypeptide, the amino acid at position 2, 5, and 6 of the M2e polypeptide, wherein amino acid position numbers are in accordance with MSLITEVETPTRNNEWGCR CNDSSD (SEQ ID NO: 1), wherein the amino acid at position 2 is a serine; position 5 is a threonine; and position 6 is a glutamic acid, and wherein said epitope wholly of partially includes the amino acid sequence SLITEV (SEQ ID NO: 42). (Claims to 8110 are elected)	None	
THHR-003/N01BR 316188-2021	37418- 503N01BR	PCT	Pending	PI0820053-0	12-Nov-2008	Brazil	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/N01CA 316188-2022	37418- 503N01CA	PCT	Pending	2705555	12-Nov-2008	Canada	Compositions And Methods For The Therapy And Diagnosis Of Influenza		Response to Office Action	09/24/2015 (Final)
THHR-003/N01CN 316188-2024	37418- 503N01CN	PCT	Granted	200880123932.8	12-Nov-2008	China (People's Republic)	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/D01CN 316188-2013	37418- 503D01CN	DIV	Pending	201410103093.0	12-Nov-2008	China (People's Republic)	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	



Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-003/N01IEP 316188-2027	37418- 503N01IEP	PCT	Granted	08850112.7 (EP Pub. No. 2220116)	12-Nov-2008	European Patent Convention (Validated in Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland , and UK)	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/N01HK 316188-2032	37418- 503N01HK	REG	Granted	11101919.3 (HK Patent No. HK1147767)	12-Nov-2008	Hong Kong	Compositions And Methods For The Therapy And Diagnosis Of Influenza		Maintenance Fee Due	10/12/2016 11/12/2016
THHR-003/D01HK 316188-2181	N/A	REG	Pending	15102928.6	12-Nov-2008	Hong Kong	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/N01IN 316188-2035	37418- 503N01IN	PCT	Published	1815/KOLNP/201 0	12-Nov-2008	India	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/N01IL 316188-2034	37418- 503N01IL	PCT	Pending	205705	12-Nov-2008	Israel	Compositions And Methods For The Therapy And Diagnosis Of Influenza		Response to Office Action	10/3/2015
THHR-003/N01JP 316188-2037	37418- 503N01JP	PCT	Granted	2010-527260 (Patent No. 4932940)	12-Nov-2008	Japan	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-003/D01JP 316188-2014	37418- 503D01JP	DIV	Granted	2011-105659 (Patent No. 5623332)	12-Nov-2008	Japan	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/N01KR 316188-2038	37418- 503N01KR	PCT	Pending	10-2010-7012975	12-Nov-2008	Korea, Republic of	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/N01MX 316188-2039	37418- 503N01MX	PCT	Granted	MX/a/2010/00524 4 (Patent No. 312017)	12-Nov-2008	Mexico	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/N01NZ 316188-2042	37418- 503N01NZ	PCT	Granted	585500 (Patent No. 585500)	12-Nov-2008	New Zealand	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/N01SG 316188-2045	37418- 503N01SG	PCT	Granted	201003325-6 (Patent No. 161495)	12-Nov-2008	Singapore	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/001TW 316188-2006	37418- 503001TW	ORD	Published	98138407	12-Nov-2009	Taiwan	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/D01TW 316188-2177	N/A	DIV	Pending	103141976	12-Nov-2009	Taiwan	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/001US 316188-2007	37418- 503001US	ORD	Granted	12/269781 (Patent No. 8,057,796)	12-Nov-2008	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHR-003/C01US 316188-2010	37418- 503C01US	CON	Granted	13/215841 (Patent No. 8,460,671)	23-Aug-2011	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-003/C02US 316188-2011	37418- 503C02US	CON	Published	13/914380	10-Jun-2013	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Influenza		Response to Office Action Due	08/08/2015 (Initial) 11/08/2015 (Final)
THHR-003/D01US 316188-2016	37418- 503D01US	DIV	Granted	12/726297 (Patent No. 8,114,402)	17-Mar-2010	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Influenza	Influenza M2e: Identical to disclosure of USSN 12/269781 (claims to 23K12 are elected).	None	
THHR-003/D02US 316188-2017	37418- 503D02US	DIV	Published	13/772976	21-Feb-2013	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Influenza	Influenza M2e: Identical to 503 disclosure with addition of longer sequences for 8110 and 23K12. Incorporates PNAS manuscript. This is a DIV of USSN 12/795618 (37418-503002US).	None	
THHR-004/N01AU 316188-2056	37418- 504N01AU	PCT	Allowed	2009223688	10-Mar-2009	Australia	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		None	
THHR-004/D01AU 316188-2180	N/A	DIV	Pending	2015201280	10-Mar-2009	Australia	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections	HCMV: Compositions and Methods for the Therapy and Diagnosis of Cytomegalovirus. Encompasses antibodies 2E10, 2MH6, 2N9, 3C21, 4P12, 5P9, and 9C16. Further encompasses epitopes of the glycoprotein b (gpB) envelope protein of the CMV virus, and specifically, wherein said epitope comprises the antigenic determinant 2 site 1 of gpB, gp116.	None	
THHR-004/N01CA 316188-2057	37418- 504N01CA	PCT	Pending	2718878	10-Mar-2009	Canada	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		None	
THHR-004/N01CN 316188-2058	37418- 504N01CN	PCT	Granted	200980116708.0	10-Mar-2009	China (People's Republic)	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		None	

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHER-004/N01HEP 316188-2059	37418- 504N01HEP	PCT	Allowed	097200323 (EP Pub. No. 2257571)	10-Mar-2009	European Patent Convention	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		Power of Attorney	8/3/2015
THHER-004/N01HK 316188-2060	37418- 504N01HK	REG	Published	111054233	10-Mar-2009	Hong Kong	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		None	
THHER-004/N01HN 316188-2062	37418- 504N01HN	PCT	Published	3400/KOLNP/201 0	10-Mar-2009	India	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		None	
THHER-004/N01HL 316188-2061	37418- 504N01HL	PCT	Pending	208086	10-Mar-2009	Israel	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		None	
THHER-004/D01HL 316188-2178	N/A	DIV	Pending	236601	10-Mar-2009	Israel	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		Response to Office Action due	10/23/15
THHER-004/N01JP 316188-2063	37418- 504N01JP	PCT	Granted	2010-550824 (Pat. No. 5544309)	10-Mar-2009	Japan	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		None	

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHER-004/D01JP 316188-2054	37418- 504D01JP	PCT	Pending	2013-131336	10-Mar-2009	Japan	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		None	
THHER-004/N01MX 316188-2064	37418- 504N01MX	PCT	Granted	MX/2010/00988 5 (Patent No. 314239)	10-Mar-2009	Mexico	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus Infections		None	
THHER-004/001US 316188-2050	37418- 504001US	ORD	Granted	12/401585 (Patent No. 7,982,012)	10-Mar-2009	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus	Same disclosure as other 504 applications (claims encompass 2N9 antibody)	None	
THHER-004/C01US 316188-2052	37418- 504C01US	CON	Granted	13/109632 (Patent No. 8,268,309)	17-May-2011	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus	Same disclosure as USSN 12/401585.	None	
THHER-004/C02US 316188-2053	37418- 504C02US	CON	Granted	13/486569 (Patent No. 8,852,594)	01-Jun-2012	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus	Same disclosure as USSN 12/401585 and 13/109632.	None	
THHER-004/C03US 316188-2171	N/A	CON	Pending	14/323,537	03-Jul-2014	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Cytomegalovirus	Same disclosure as USSN 12/401585, 13/109632, and 13/486569.	Response to Restriction Requirement due	8/5/15 (Initial) 12/5/15 (final)
THHER-006/N01AU 316188-2081	37418- 506N01AU	PCT	Accepted	2009314091	12-Nov-2009	Australia	Human M2E Peptide Immunogens	Influenza M2e peptide immunogens: Human M2e Vaccine Immunogens:	None	
THHER-006/N01CA 316188-2082	37418- 506N01CA	PCT	Pending	2743306	12-Nov-2009	Canada	Human M2E Peptide Immunogens	Encompasses peptide immunogens that are effective and capable of inducing	Sequence Listing due	9/4/2015

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-006/N01EP 316188-2083	37418- 506N01EP	PCT	Published	097526768 (EP Pub. No. 2346529)	12-Nov-2009	European Patent Convention	Human M2E Peptide Immunogens	antibodies against influenza A virus to prevent infection by the virus. For example, a peptide immunogen of this invention is represented by the following formula: [Xaa0]m-Xaa1-Xaa2-Xaa3-Xaa 4-Xaa5-[Xaa6]-[Xaa7]q-[Xaa8- [Xaa0]n-Xaa1-Xaa2-Xaa3-Xaa 4-Xaa5-[Xaa6]-[Xaa7]q]n; wherein, m, p and q are independently 0 or 1, n is any number between 0 and 4, Xaa0 is any amino acid, preferably C; Xaa6 is any amino acid, preferably V or C; Xaa7 is any amino acid, preferably E; Xaa8 is any amino acid not including proline, preferably G or A; Xaa9-Xaa9-Xaa9-Xaa9-Xaa9- is S-L-L-T-E or; a peptide having a single substitution to the sequence S-L-L-T-E (SEQ ID NO: 47), the substitution selected from the group consisting of: Xaa9, is C or T; Xaa9 is A, C, F or K; Xaa9 is A, C, E, F, I, K, M, Q, S, T or V, and Xaa9 is D or C.	Deadline to Pay Grant fees (and file translations of claims)	11/1/2015
THHR-006/N01HK 316188-2084	37418- 506001HK	REG	Published	12100695	12-Nov-2009	Hong Kong	Human M2E Vaccine Immunogens		None	
THHR-006/N01JP 316188-2085	37418- 506N01JP	PCT	Published	2011-536450	12-Nov-2009	Japan	Human M2E Vaccine Immunogens		None	
THHR-006/D01JP 316188-2168	N/A	DIV	Pending	2014-106974	12-Nov-2009	Japan	Human M2E Vaccine Immunogens		None	
THHR-006/001US 316188-2078	37418- 506001US	ORD	Granted	12/617243 (Patent No. 8,329,188)	12-Nov-2009	United States of America	Human M2E Peptide Immunogens		None	
THHR-006/C01US 316188-2080	37418- 506C01US	CON	Granted	13/523710 (Patent No. 8,932,597)	14-Jun-2012	United States of America	Human M2E Peptide Immunogens		None	
THHR-006/C02US 316188-2183	N/A	CON	Pending	14/594,461	12-Jan-2015	United States of America	Human M2E Peptide Immunogens		Response to Restriction Requirement due	7/1/2015 (Initial) 11/1/15 (Final)
THHR-008/N01CN 316188-2090	37418- 508N01CN	PCT	Published	201080027170.9	23-Apr-2010	China (People's Republic)	Granulocyte-Ma crophage Colony-Stimulat ing Factor (GM-CSF) Neutralizing Antibodies		None	
THHR-008/N01TH 316188-2092	37418- 508N01TH	PCT	Pending	1101002827	23-Apr-2010	Thailand	Granulocyte-Ma crophage Colony-Stimulat ing Factor (GM-CSF) Neutralizing Antibodies	GM-CSF: Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) Neutralizing Antibodies: Encompasses the 1783122 antibody.	None	

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHER-008/001 US 316188-2087	37418- 508001US	ORD	Granted	12/766444 (Patent No. 8,609,101)	23-Apr-2010	United States of America	Grammacyc-Ma crophage Colony-Stimulat ing Factor (GM-CSE) Neutralizing Antibodies		None	
THHER-009/N01AU 316188-2096	37418- 509N01AU	PCT	Pending	2010249787	20-May-2010	Australia	Compositions And Methods For The Therapy And Diagnosis Of Influenza	Influenza M2e: Compositions and Methods for the Therapy and Diagnosis of Influenza: Encompasses antibodies 8i10, 21B15 23K12, 3241_G23, 3244_I10, 3243_J07, 3259_J21, 3245_O19, 3244_H04, 3136_G05, 3252_C13, 3255_J06, 3420_I23, 3139_P23, 3248_P18, 3253_P10, 3260_D19, 3362_B11, and 3242_P05. Also includes same epitopes as the 503 application.	Deadline to place application in condition for allowance	11/11/2015 (Initial) 8/1/2016 (Final)
THHER-009/N01CA 316188-2097	37418- 509N01CA	PCT	Pending	2762302	20-May-2010	Canada	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHER-009/N01EP 316188-2098	37418- 509N01EP	PCT	Published	107325144 (EP Pub. No. 2432803)	20-May-2010	European Patent Convention	Compositions And Methods For The Therapy And Diagnosis Of Influenza		Response to Official Action Due	8/20/2015 (initial) 10/20/2015 (final)
THHER-009/D01JP 316188-2172	N/A	DIV	Published	2014-139557	20-May-2010	Japan	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHER-009/N01US 316188-2100	37418- 509N01US	PCT	Granted	13/321460 (Patent No. 8,858,948)	20-May-2010	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHER-009/C01US 316188-2175	N/A	CON	Published	14/513973	14-Oct-2014	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHER-012/N01AU 316188-2109	37418- 512N01AU	PCT	Pending	2010282415	12 Aug 2010	Australia	Compositions And Methods For The Therapy And Diagnosis Of Influenza	Influenza M2e/HA. Compositions and Methods for the Therapy and Diagnosis of Influenza. Encompasses M2e antibodies from Theracitone s. 509 application.	Deadline to place application in condition for allowance	11/11/2015 (Initial) 8/1/2016 (Final)

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHER-012/N01CA 316188-2110	37418- 512N01CA	PCT	Pending	27711105	12 Aug 2010	Canada	Compositions And Methods For The Therapy And Diagnosis Of Influenza	in combination with the HA antibodies of Crucell PCT application (International Patent Application PCT/EP2007/059356 (Publication No. WO 2008/028946)).	Deadline to Request Examination	8/12/2015
THHER-012/N01EP 316188-2111	37418- 512N01EP	PCT	Published	10808769.3 (EP Pub. No. 2464383)	12 Aug 2010	Europe	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHER-012/N01HK 316188-2112	37418- 512N01HK	REG	Pending	12106995.8	12 Aug 2010	Hong Kong	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHER-012/N01JP 316188-2113	37418- 512N01JP	PCT	Pending	2012-524878	12 Aug 2010	Japan	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHER-012/D01JP 316188-2179	N/A	DIV	Pending	2015-30186	12 Aug 2010	Japan	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHER-012/001TW 316188-2106	37418- 512001TW	ORD	Published	99127135	13-Aug-2010	Taiwan	Compositions And Methods For The Therapy And Diagnosis Of Influenza		none	
THHER-012/001US 316188-2107	37418- 512001US	ORD	Granted	12/855553 (Patent No. 8,974,788)	12-Aug-2010	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Influenza		None	
THHER-012/C01US 316188-2182	N/A	CON	Pending	14/642194	09-Mar-2015	United States of America	Compositions And Methods For The Therapy And Diagnosis Of Influenza		Response to Notice to File Missing Parts	8/19/15 (Next) 10/19/15 (Final)



Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-015/N01AU 316188-2119	37418- 515N01AU	PCT	Pending	2011289275	12-Aug-2011	Australia	Anti-Hemagglutinin Antibody Compositions And Methods Of Use Thereof	Influenza HA: Compositions and methods for TCN-522 (3212_I12), TCN-521 (3280_D18), TCN-523 (5248_A17), TCN-563 (5237_B21), TCN-526 (5084_C17), TCN-527 (5086_C06), TCN-528 (5087_P17), TCN-529 (5297_H01), TCN-530 (5248_H10a), TCN-531 (5091_H13), TCN-532 (5262_H18), TCN-533 (5256_A17), TCN-534 (5249_B02), TCN-535 (5246_P19), TCN-536 (5095_N01), TCN-537 (3194_D21), TCN-538 (3206_O17), TCN-539 (5056_A08), TCN-540 (5060_F05), TCN-541 (5062_M11), TCN-542 (5079_A16), TCN-543 (5081_G23), TCN-544 (5082_A19), TCN-545 (5082_I15), TCN-546 (5089_L08), TCN-547 (5092_F11), TCN-548 (5092_P01), TCN-549 (5092_P04), TCN-550 (5096_F06), TCN-551 (5243_D01), TCN-552 (5249_I23), TCN-553 (5261_C18), TCN-554 (5277_M05), TCN-555 (5246_L16), TCN-556 (5089_K12), TCN-557 (5081_A04), TCN-558 (5248_H10b), TCN-559 (5097_G08), TCN-560 (5084_P10), and TCN-504 (3251_K17).	Deadline to place in condition for allowance (initial)	9/22/2015
THHR-015/N01CA 316188-2120	37418- 515N01CA	PCT	Pending	2807664	12-Aug-2011	Canada	Anti-Hemagglutinin Antibody Compositions And Methods Of Use Thereof		Deadline to place in condition for allowance (final)	6/22/2016
THHR-015/N01EP 316188-2121	37418- 515N01EP	PCT	Published	118170927 (EP Pub. No. 2603237)	12-Aug-2011	Europe	Anti-Hemagglutinin Antibody Compositions And Methods Of Use Thereof		Deadline to Request Examination	8/12/2016
THHR-015/N01HK 316188-2122	37418- 515N01HK	REG	Pending	13113083.6	12-Aug-2011	Hong Kong	Anti-Hemagglutinin Antibody Compositions And Methods Of Use Thereof		None	
THHR-015/N01JP 316188-2123	37418- 515N01JP	PCT	Pending	2013-524243	12-Aug-2011	Japan	Anti-Hemagglutinin Antibody Compositions And Methods Of Use Thereof		None	
THHR-015/001US 316188-2117	37418- 515001US	ORD	Granted	13/208754 (Patent No. 8,900,590)	12-Aug-2011	United States of America	Anti-Hemagglutinin Antibody Compositions And Methods Of Use Thereof		None	

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-015/C01US 316188-2176	N/A	ORD	Pending	14/557,515	12/02/2014	United States of America	Anti-Hemagglutinin Antibody Compositions And Methods Of Use Thereof		Response to Office Action due	9/24/2015 (Initial) 12/24/2015 (Final)
THHR-017/001US 316188-2127	37418-517001US	ORD	Published	13/418923	13 Mar 2012	United States of America	Compositions and Methods for the Therapy and Diagnosis of Influenza		Response to Office Action due	07/24/2015 (Next) 09/24/2015 (Final)
THHR-017/N01AU 316188-2129	37418-517N01AU	PCT	Pending	2012229188	13 Mar 2012	Australia	Compositions and Methods for the Therapy and Diagnosis of Influenza		Deadline to Request Examination	3/13/2017
THHR-017/N01BR 316188-2130	37418-517N01BR	PCT	Pending	BR112013023576 4	13 Mar 2012	Brazil	Compositions and Methods for the Therapy and Diagnosis of Influenza	Influenza M2e: This application combines the disclosure of (37418-503602)US, CIP), with data for the combination of an anti-M2e antibody and oseltamivir (Tamflu) for treating and preventing influenza infection.	None	
THHR-017/N01CA 316188-2131	37418-517N01CA	PCT	Pending	2829968	13 Mar 2012	Canada	Compositions and Methods for the Therapy and Diagnosis of Influenza		Deadline to Request Examination	3/13/2017
THHR-017/N01CN 316188-2132	37418-517N01CN	PCT	Pending	201280023182.3	13 Mar 2012	China	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-017/N01EP 316188-2133	37418-517N01EP	PCT	Pending	12709488.6 (EP Pub. No. 2685968)	13 Mar 2012	Europe	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-017/N01HN 316188-2135	37418- 517N01HN	PCT	Pending	8270/CHENP/201 3	13 Mar 2012	India	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-017/N01HL 316188-2134	37418- 517N01HL	PCT	Pending	228403	13 Mar 2012	India	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-017/N01JP 316188-2136	37418- 517N01JP	PCT	Pending	2013-558105	13 Mar 2012	Japan	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-017/N01KR 316188-2137	37418- 517N01KR	PCT	Pending	10-2013-7026811	13 Mar 2012	Korea	Compositions and Methods for the Therapy and Diagnosis of Influenza		Deadline to Request Examination	3/13/2017
THHR-017/N01MX 316188-2138	37418- 517N01MX	PCT	Pending	MX/b/2013/01036 7	13 Mar 2012	Mexico	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-017/N01NZ 316188-2139	37418- 517N01NZ	PCT	Pending	615337	13 Mar 2012	New Zealand	Compositions and Methods for the Therapy and Diagnosis of Influenza		Deadline to place in condition for allowance (initial)	10/11/2015
THHR-017/N01SG 316188-2140	37418- 517N01SG	PCT	Pending	201306826-7	13 Mar 2012	Singapore	Compositions and Methods for the Therapy and Diagnosis of Influenza		Request Slow Track Examination	3/15/16
THHR-017/001TW 316188-2126	37418- 517001TW	ORD	Published	101108672	13 Mar 2012	Taiwan	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-018/001US 316188-2143	37418- 518001US	ORD	Granted	13/372870 (Patent No. 8,916,160)	14 Feb 2012	United States of America	Compositions and Methods for the Therapy and Diagnosis of Influenza	Influenza M2e/HA: This application combines the disclosure of the 512 family (combination of Theracloine M2e antibodies with Crucell HA antibodies) with the disclosure of the 515 family (Theracloine HA antibodies).	None	
THHR-018/C01US 316188-2184	N/A	ORD	Pending	14/578777	12/22/2014	United States of America	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-018/N01AU 316188-2145	37418- 518N01AU	PCT	Pending	2012217867	14 Feb 2012	Australia	Compositions and Methods for the Therapy and Diagnosis of Influenza		Deadline to Request Examination	2/14/2017
THHR-018/N01BR 316188-2146	37418- 518N01BR	PCT	Pending	BR112013020743 4	14 Feb 2012	Brazil	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-018/N01CA 316188-2147	37418- 518N01CA	PCT	Pending	2827301	14 Feb 2012	Canada	Compositions and Methods for the Therapy and Diagnosis of Influenza		Deadline to Request Examination	2/14/2017
THHR-018/N01CN 316188-2148	37418- 518N01CN	PCT	Pending	201280018154.2	14 Feb 2012	China	Compositions and Methods for the Therapy and Diagnosis of Influenza		Response to Official Action due	8/6/15 (Initial) 10/6/15 (Final)
THHR-018/N01EP 316188-2149	37418- 518N01EP	PCT	Pending	12747475.7 (EP Pub. No. 2675478)	14 Feb 2012	Europe	Compositions and Methods for the Therapy and Diagnosis of Influenza		Response to Search Opinion due	12/1/15
THHR-018/N01HK 316188-2174	N/A	REG	Pending	14109187.8	14 Feb 2012	Hong Kong	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-018/N01IN 316188-2151	37418- 518N01IN	PCT	Pending	2722/KOLNP/201 3	14 Feb 2012	India	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-018/N01IL 316188-2150	37418- 518N01IL	PCT	Pending	227947	14 Feb 2012	Israel	Compositions and Methods for the Therapy and Diagnosis of Influenza		Send art to agent	8/2/15
THHR-018/N01JP 316188-2152	37418- 518N01JP	PCT	Pending	2013-553646	14 Feb 2012	Japan	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-018/N01KR 316188-2153	37418- 518N01KR	PCT	Pending	10-2013-7024393	14 Feb 2012	Korea	Compositions and Methods for the Therapy and Diagnosis of Influenza		Deadline to Request Examination	2/14/2017
THHR-018/N01MX 316188-2154	37418- 518N01MX	PCT	Pending	MX/a/2013/00935 7	14 Feb 2012	Mexico	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-018/N01NZ 316188-2155	37418- 518N01NZ	PCT	Pending	614215	14 Feb 2012	New Zealand	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-018/N01SG 316188-2156	37418- 518N01SG	PCT	Pending	201306112-2	14 Feb 2012	Singapore	Compositions and Methods for the Therapy and Diagnosis of Influenza		Rely on granted counterpart & pay issue fee	2/14/2016
THHR-018/001TW 316188-2142	37418- 518001TW	ORD	Published	101104743	14 Feb 2012	Taiwan	Compositions and Methods for the Therapy and Diagnosis of Influenza		None	
THHR-019/001US 316188-2158	37418- 519001US	ORD	Granted	13/596463 (Patent No. 8,822,651)	28-Aug-2012	United States of America	Human Rhinovirus (HRV) Antidotes	HRV: Compositions, methods of making, method of using, and kits including TCN-711 (6893, E11), TCN-716 (6362, F16), TCN-717 (6358, H17), or TCN-722 (6385, L22).	None	

Coolley Docket No.	ML Docket No.	Type	Status	Serial Number	Filing Date	Country	Title	Description	Action Due	Deadline
THHR-019/C01US 316188-2173	N/A	CON	Pending	14/44948	1-Aug-2014	United States of America	Human Rhinovirus (HRV) Antibodies		Response to Restriction Requirement Due	09/03/2015 (Final)
THHR-020/001US 316188-2167	37418-520001US	ORD	Pending	14/256352	18-Apr-2014	United States of America	Compositions and Methods for the Therapy and Diagnosis of Cytomegalovirus	HCMV: Compositions and Methods for the Therapy and Diagnosis of Cytomegalovirus: Encompasses antibodies 2F10, 2M16, 2N9, 3C21, 4P12, 5P9, and 9C16. Further encompasses epitopes of the glycoprotein b (gB) envelope protein of the CMV virus, and specifically, wherein said epitope comprises the antigenic determinant 2 site 1 of gB, gp116. Application contains additional dosages and dosing regimens compared to 504 family.	Response to Restriction Requirement Due	8/11/2015 (Next) 11/11/2015 (Final)
THHR-020/001WO 316188-2164	37418-520001WO	PCT	Pending	PCT/US2014/034632	18-Apr-2014	Patent Cooperation Treaty	Compositions and Methods for the Therapy and Diagnosis of Cytomegalovirus		Deadline to enter national stage	10/19/2015
THHR-021/001US 316188-2170	37418-521001US	ORD	Pending	14/256345	18-Apr-2014	United States of America	Compositions and Methods for the Therapy and Diagnosis of Influenza	Influenza M2e: This application combines the disclosure of (37418-503002)US, CIP), with data for the combination of an anti-M2e antibody and oseltamivir (Tamflu) for treating and preventing influenza infection. Application contains additional dosages and dosing regimens compared to 517 family.	Response to Restriction Requirement	08/08/2015 (Next) 10/8/2015 (Final)
THHR-021/001WO 316188-2165	37418-521001WO	PCT	Pending	PCT/US2014/034634	18-Apr-2014	Patent Cooperation Treaty	Compositions and Methods for the Therapy and Diagnosis of Influenza		Deadline to enter national stage	10/23/2015
THHR-022/001US 316188-2169	37418-522001US	ORD	Pending	14/263305	28-Apr-2014	United States of America	Human Rhinovirus (HRV) Antibodies	HRV: Compositions, methods of making, method of using, and kits including TCN-711 (6893_E11), TCN-716 (6362_F16), TCN-717 (6358_H17), or TCN-722 (6385_L22). Application adds additional disclosure with respect to binding and activity of TCN-711 (6893_E11).	None	
THHR-022/001WO 316188-2166	37418-522001WO	PCT	Pending	PCT/US2014/035675	28-Apr-2014	Patent Cooperation Treaty	Human Rhinovirus (HRV) Antibodies		Deadline to enter national stage	11/1/2015

Client: 43831 Theravance Sciences, Inc.

Client Matter/SubCase	SubCase	Case Type	Status	Client Reference	Application Number	Patent Number	Filing Date	Issue Date	Next Action(s)	Due Date(s)
43831.00.2001		PRO	Expired		61/378,604		31-Aug-2010			
United States of America										
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES</b>										
43831.00.2002		PRO	Unified							
United States of America										
<b>Title: BROADLY NEUTRALIZING ANTIBODIES TO HIV THAT DEFINE A GLYCANDEPENDENT EPTOPE PRESENT ONLY ON THE PRE-FUSION CONFORMATION OF gp41 ON CLEAVED TRIMERIC ENVELOPE</b>										
43831.00.2013		ORD	Allowed		12/726,245		17-Mar-2010		Tax 3.5	09-Dec-2018
United States of America										
1382.3/IAV0020P 9,051,362 09-Jun-2015 Tax 7.5										
Tax 11.5 09-Dec-2026										
<b>Title: MONOCLONAL ANTIBODIES DIRECTED AGAINST TRIMERIC FORMS OF THE HIV-1 ENVELOPE GLYCOPROTEIN WITH BROAD AND POTENT NEUTRALIZING ACTIVITY</b>										
43831.01.2001		PRO	Expired		61/386,940		27-Sep-2010			
United States of America										
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES</b>										
43831.01.2013		CON	Published		14/692,483		21-Apr-2015		File Oath/Declaration	21-Oct-2015
United States of America										
TSRI1382ConIIAV0032 U.S.-Application Status Check 21-Oct-2016										
<b>Title: MONOCLONAL ANTIBODIES DIRECTED AGAINST TRIMERIC FORMS OF THE HIV-1 ENVELOPE GLYCOPROTEIN WITH BROAD AND POTENT NEUTRALIZING ACTIVITY</b>										
43831.02.2001		PRO	Expired		61/476,978		19-Apr-2011			
United States of America										
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES</b>										
43831.03.2001		PRO	Expired		61/515,548		05-Aug-2011			
United States of America										
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES</b>										

TRADEMARK

REEL: 005698 FRAME: 0948

Client Matter/SubCase	SubCase	Case Type	Status	Client Reference	Application Number	Filing Date	Next Action(s)	Due Date(s)
43831.04.2001		CIP	Published		13/780,776	28-Feb-2013	2 Month Due Date (Final OA) 3 Month Due Date (Final OA) Notice of Appeal	13-Oct-2015 13-Nov-2015 13-Nov-2015
United States of America								
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES</b>								
43831.22.2001		PCT	Pending		2,809,837	31-Aug-2011	Amnuty due Request Examination	31-Aug-2015 31-Aug-2016
Canada								
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES</b>								
43831.22.2013		PCT	Pending		2,755,821	17-Mar-2010	Amnuty due	17-Mar-2016
Canada								
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV) - NEUTRALIZING ANTIBODIES</b>								
43831.61.2001		PCT	Pending		2011296065	31-Aug-2011	AU-Acceptance with fee Amnuty due	20-Aug-2015 31-Aug-2015
Australia								
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES</b>								
43831.61.2013		PCT	Pending		2010226668	17-Mar-2010	Divisional Deadline Foreign Allowance Payment Due	16-Oct-2015 16-Oct-2015
Australia								
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV) -NEUTRALIZING ANTIBODIES</b>								
43831.80.2001		PCT	Abandoned		11822530.9	31-Aug-2011	Amnuty due	17-Mar-2016
European Patent Convention								
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES</b>								
43831.80.2003		DIV	Pending		14004015.5	31-Aug-2011	EP - Additional Search Fees Deadline Amnuty due	22-Aug-2015 31-Aug-2015
European Patent Convention								
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES</b>								

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REEL: 005698 FRAME: 0949



Client Matter/SubCase	SubCase	Case Type	Status	Client Reference	Application Number	Filing Date	Next Action(s)	Due Date(s)
43831.80.2013		PCT	Pending		10722810.8	17-Mar-2010	Annuity due	17-Mar-2016
European Patent Convention 1382.3EP/AV10029P								
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV) -NEUTRALIZING ANTIBODIES</b>								
43831.99.2001		ORD	Completed		PCT/US2011/49880	31-Aug-2011		
Patent Cooperation Treaty								
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV)-NEUTRALIZING ANTIBODIES</b>								
43831.99.2013		ORD	Completed		PCT/US2010/027695	17-Mar-2010		
Patent Cooperation Treaty TSRI382.3PCT/AVV0019								
<b>Title: HUMAN IMMUNODEFICIENCY VIRUS (HIV) -NEUTRALIZING ANTIBODIES</b>								

TRADEMARK

REEL: 005698 FRAME: 0950

Sort Order: by Client

Print Remarks?: No  
Print Inventors?: No  
Print Abstract: No  
Actions Due: All

Filing Date: From: To:

Client Matter:

Status Code: All

Client: 43831

Case Type(s):

Status(es):

Agent:

Attorney:

Owner:

Country:

Area:

Inventor:

EXHIBIT C

Trademarks

[See attached]

Trademark	Docket Number/Subcase Country Name	Status Class(es)	Serial Number Filing Date	Registration Number/Date
I-STAR	37418-401/116 European Community	Registered 42	A0010451 27-Nov-2007	956941 27-Nov-2007
I-STAR	37418-401/226 Int'l Registration - Madrid Protocol Only	Registered 42	A0010451 27-Nov-2007	956941 27-Nov-2007
I-STAR	37418-401/032 Japan	Registered 42	A0010451 27-Nov-2007	956941 27-Nov-2007
I-STAR	37418-401/ United States of America	Registered 42	77/193531 30-May-2007	3,680,336 08-Sep-2009
THERACLONE SCIENCES	37418-404/004 Australia	Registered 5, 42	1320239 11-Sep-2009	1320239 11-Sep-2009
THERACLONE SCIENCES	37418-404/008 Canada	Registered 5, 42	1,451,308 10-Sep-2009	TMA891,074 27-Nov-2014
THERACLONE SCIENCES	37418-404/010 China (People's Republic)	Registered 5	7694951 14-Sep-2009	7694951 07-Dec-2010
THERACLONE SCIENCES	37418-404/010A China (People's Republic)	Registered 42	7694952 14-Sep-2009	7694952 07-Jan-2011
THERACLONE SCIENCES	37418-404/116 European Community	Registered 5, 42	8542888 11-Sep-2009	8542888 08-Mar-2010
THERACLONE SCIENCES	37418-404/030 India	Registered 5, 42	1861507 11-Sep-2009	1861507 11-Sep-2009
THERACLONE SCIENCES	37418-404/032 Japan	Registered	2009-69788 11-Sep-2009	5345566 13-Aug-2010
THERACLONE SCIENCES	37418-404/034 Korea, Republic of	Registered 5, 42	45-2009-0003362 14-Sep-2009	45-0032842 03-Nov-2010
THERACLONE SCIENCES	37418-404/046 New Zealand	Registered 5, 42	812579 11-Sep-2009	812579 11-Mar-2010
THERACLONE SCIENCES	37418-404/009 Switzerland	Registered 5, 42	59963/2009 11-Sep-2009	601,529 11-Jun-2010
THERACLONE SCIENCES	37418-404/066 Taiwan	Registered 5, 42	098040107 11-Sep-2009	1418226 30-Jun-2010

Trademark	Docket Number/Subcase Country Name	Status Class(es)	Serial Number Filing Date	Registration Number/Date
THERACLONE SCIENCES	37418-404/	Registered	77/690467	4,388,327
	United States of America	5	13-Mar-2009	20-Aug-2013
THERACLONE SCIENCES	37418-404A/	Registered	77/981342	3,952,304
	United States of America	42	13-Mar-2009	26-Apr-2011

# Report Selection

- by Trademark
- by Country
- by Client
- by Owner

**Report Format**

- Concise
- Comprehensive

**Goods**

- Print
- Do Not Print

**Remarks**

- Print
- Do Not Print

Preview before printing

Date Range

- Filing
- Registration
- Next Renewal
- Last Update

From :

To :

Client:

Status Codes:

- Active
- Inactive
- All

Status(es):

Country:

Area:

Attorney:

Trademark:

Owner:

EXHIBIT D

Mask Works

None.