

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Carson C. Thoreen</td> <td>05/02/2011</td> </tr> <tr> <td>Seong Woo Anthony Kang</td> <td>05/03/2011</td> </tr> <tr> <td>David M. Sabatini</td> <td>05/03/2011</td> </tr> </tbody> </table>		Name	Execution Date	Carson C. Thoreen	05/02/2011	Seong Woo Anthony Kang	05/03/2011	David M. Sabatini	05/03/2011		
Name	Execution Date										
Carson C. Thoreen	05/02/2011										
Seong Woo Anthony Kang	05/03/2011										
David M. Sabatini	05/03/2011										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Whitehead Institute for Biomedical Research</td> </tr> <tr> <td>Street Address:</td> <td>Nine Cambridge Center</td> </tr> <tr> <td>City:</td> <td>Cambridge</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02142</td> </tr> </table>		Name:	Whitehead Institute for Biomedical Research	Street Address:	Nine Cambridge Center	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02142
Name:	Whitehead Institute for Biomedical Research										
Street Address:	Nine Cambridge Center										
City:	Cambridge										
State/Country:	MASSACHUSETTS										
Postal Code:	02142										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13670013</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13670013						
Property Type	Number										
Application Number:	13670013										
CORRESPONDENCE DATA											
Fax Number: 6176468646 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 617-646-8000 Email: patents_hunterb@wolfgreenfield.com Correspondent Name: C. Hunter Baker Address Line 1: Wolf, Greenfield & Sacks, P.C. Address Line 2: 600 Atlantic Avenue Address Line 4: Boston, MASSACHUSETTS 02210											
ATTORNEY DOCKET NUMBER:	W0571.70020US04										
NAME OF SUBMITTER:	C. Hunter Baker, M.D., Ph.D.										
Total Attachments: 10 source=W0571.70020US03 - Executed Assignment (WHI)#page1.tif											

OP \$40.00 13670013

source=W0571.70020US03 - Executed Assignment (WHI)#page2.tif
source=W0571.70020US03 - Executed Assignment (WHI)#page3.tif
source=W0571.70020US03 - Executed Assignment (WHI)#page4.tif
source=W0571.70020US03 - Executed Assignment (WHI)#page5.tif
source=W0571.70020US03 - Executed Assignment (WHI)#page6.tif
source=W0571.70020US03 - Executed Assignment (WHI)#page7.tif
source=W0571.70020US03 - Executed Assignment (WHI)#page8.tif
source=W0571.70020US03 - Executed Assignment (WHI)#page9.tif
source=W0571.70020US03 - Executed Assignment (WHI)#page10.tif

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign, and transfer to Whitehead Institute for Biomedical Research, a Delaware corporation, having a place of business at Nine Cambridge Center, Cambridge, Massachusetts 02142, its successors, assigns, and legal representatives, all hereinafter referred to as the Assignee, my entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the patent applications listed in the table at the end of this paragraph, and in and to said applications and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent, utility models, industrial designs, or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan, and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan, and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent.

<u>Title</u>	<u>Application</u>	<u>Filing or 371(c) Date</u>
SOLUBLE MTOR COMPLEXES AND MODULATORS THEREOF	U.S. Serial Number 61/185,923	June 10, 2009
SOLUBLE MTOR COMPLEXES AND MODULATORS THEREOF	International Application No. PCT/US2009/005656	October 16, 2009
SOLUBLE MTOR COMPLEXES AND MODULATORS THEREOF	U.S. Serial Number 13/124,159	April 14, 2011

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model, and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney, and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;

4. Covenant with the Assignee that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

5. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

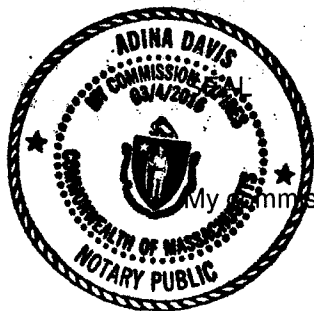
5/2/11
Date

Carson C. Thoreen
Inventor: Carson C. Thoreen

Address: 7 Lakeville Road
Jamaica Plain, Massachusetts 02130
Citizenship: US

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex:

On this 2nd day of May, 2011, before me, the undersigned notary public,
personally appeared Carson C. Thoreen, proved to me through satisfactory evidence of
identification, which were personal knowledge,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.



Adina Davis
Notary Public

My commission expires: 3-4-2016

Date

Inventor: Seong Woo Anthony Kang

Address: 466 Green Street, #8

Cambridge, Massachusetts 02139

Citizenship: US

STATE/COMMONWEALTH OF _____
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared Seong Woo Anthony Kang, proved to me through satisfactory evidence of
identification, which were _____,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

Date

Inventor: David M. Sabatini

Address: 12 Surrey Street

Cambridge, Massachusetts 02138

Citizenship: US

STATE/Commonwealth of _____
County of _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ David M. Sabatini _____, proved to me through satisfactory evidence of
identification, which were _____,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign, and transfer to Whitehead Institute for Biomedical Research, a Delaware corporation, having a place of business at Nine Cambridge Center, Cambridge, Massachusetts 02142, its successors, assigns, and legal representatives, all hereinafter referred to as the Assignee, my entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the patent applications listed in the table at the end of this paragraph, and in and to said applications and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent, utility models, industrial designs, or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan, and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan, and Korea, as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent.

<u>Title</u>	<u>Application</u>	<u>Filing or 371(c) Date</u>
SOLUBLE MTOR COMPLEXES AND MODULATORS THEREOF	U.S. Serial Number 61/185,923	June 10, 2009
SOLUBLE MTOR COMPLEXES AND MODULATORS THEREOF	International Application No. PCT/US2009/005656	October 16, 2009
SOLUBLE MTOR COMPLEXES AND MODULATORS THEREOF	U.S. Serial Number 13/124,159	April 14, 2011

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model, and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney, and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;

3. Request the Director of the United States Patent and Trademark Office and non-US patent authorities to issue the Letters Patent to the Assignee;

4. Covenant with the Assignee that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and

5. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date

Inventor: Carson C. Thoreen

Address: 7 Lakeville Road

Jamaica Plain, Massachusetts 02130

Citizenship: US

STATE/COMMONWEALTH OF _____
COUNTY OF _____:

On this _____ day of _____, _____, before me, the undersigned notary public,
personally appeared _____ Carson C. Thoreen _____, proved to me through satisfactory evidence of
identification, which were _____,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Notary Public

My commission expires: _____

5/3/11
Date

[Signature]
Inventor: Seong Woo Anthony Kang
Address: 466 Green Street, #8
Cambridge, Massachusetts 02139
Citizenship: US

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex:

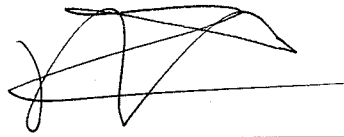
On this 3rd day of May, 2011, before me, the undersigned notary public,
personally appeared Seong Woo Anthony Kang, proved to me through satisfactory evidence of
identification, which were personal knowledge,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.



Adina Davis
Notary Public

My commission expires: 3-4-2016

5-3-11
Date


Inventor: David M. Sabatini
Address: 12 Surrey Street
Cambridge, Massachusetts 02138
Citizenship: US

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex:

On this 3rd day of May, 2011, before me, the undersigned notary public,
personally appeared David M. Sabatini, proved to me through satisfactory evidence of
identification, which were personal knowledge,
to be the person who signed the preceding or attached document in my presence and swore or affirmed
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.



Adina Davis
Notary Public

My commission expires: 3-4-2016