

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3742415

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BLAISE S. LIPPA	02/27/2014
QINGYI LI	02/26/2014
LILY CHENG	02/26/2014
CHRISTOPHER M. LIU	02/26/2014
IWONA E. WRONA	02/26/2014
CHESTER A. METCALF III	02/27/2014
ANDREW J. JACKSON	02/26/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CUBIST PHARMACEUTICALS, INC.
<b>Street Address:</b>	65 HAYDEN AVENUE
<b>City:</b>	LEXINGTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02421
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14160333
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(732)594-4720
<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>	732-594-0812
<b>Email:</b>	us_efs@merck.com
<b>Correspondent Name:</b>	MERCK SHARP & DOHME CORP.
<b>Address Line 1:</b>	126 EAST LINCOLN AVENUE
<b>Address Line 2:</b>	RY86-2011A
<b>Address Line 4:</b>	RAHWAY, NEW JERSEY 07065
<b>ATTORNEY DOCKET NUMBER:</b>	23940-US-NP
<b>NAME OF SUBMITTER:</b>	BARBARA A. MULLER
<b>SIGNATURE:</b>	/BARBARA A. MULLER/
<b>DATE SIGNED:</b>	02/17/2016

PATENT

**Total Attachments: 21**

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**ASSIGNMENT**

WHEREAS, I, **Blaise S. Lippa** of Acton, Massachusetts, a citizen of the United States of America, have invented certain new and useful inventions, described in the following patent application:

**INHIBITING THE TRANSIENT RECEPTOR POTENTIAL A1 ION CHANNEL**  
**U.S. Patent Application No. 14/160,333, filed January 21, 2014**

for which I am about to make or have made application for Patent of the United States;  
and

WHEREAS, **CUBIST PHARMACEUTICALS, INC.**, (hereinafter referred to as Assignee) a corporation having its principal place of business at 65 Hayden Avenue, Lexington, Massachusetts 02421, is desirous of acquiring all rights, title and interests in and to said invention, said applications, and in and to any and all patents which may be granted for or upon said invention and applications in the United States of America and anywhere in the world.

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this patent application, and all divisions, and continuations thereof, and all Patents of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority in any foreign country on the basis of the above patent application (if any), as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for patent which may hereafter be filed for this invention in any foreign country and all patents which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Director of the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue patents

on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

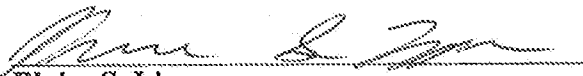
AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

AND, I HEREBY authorize and request, if necessary, that the attorneys having Power of Attorney in this application, insert above the filing date and application number of said application when known.

ALL of the above shall be held and enjoyed by said **CUBIST PHARMACEUTICALS, INC.**, for its own use and benefit, and for its successors, legal representatives and assigns, to the full end of the term for which said patent may be granted, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue the patent in accordance with this Assignment.

This assignment to have effect as of January 21, 2014.

2-27-2014  
Date:

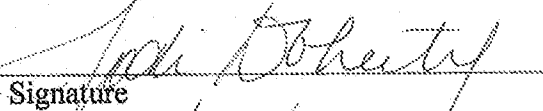
  
Blaise S. Lipka

Signed in my presence and acknowledged to be an assignment of the application herein  
above referred to:

WITNESS

Lexington MA  
Signed At (City/State)

Jodi Doherty  
Name

  
Signature

02/27/2014  
Date

**ASSIGNMENT**

WHEREAS, I, **Qingyi Li** of Somerville, Massachusetts, a citizen of China, have invented certain new and useful inventions, described in the following patent application:

**INHIBITING THE TRANSIENT RECEPTOR POTENTIAL A1 ION CHANNEL  
U.S Patent Application No. 14/160,333, filed January 21, 2014**

for which I am about to make or have made application for Patent of the United States;  
and

WHEREAS, **CUBIST PHARMACEUTICALS, INC.**, (hereinafter referred to as Assignee) a corporation having its principal place of business at 65 Hayden Avenue, Lexington, Massachusetts 02421, is desirous of acquiring all rights, title and interests in and to said invention, said applications, and in and to any and all patents which may be granted for or upon said invention and applications in the United States of America and anywhere in the world.

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this patent application, and all divisions, and continuations thereof, and all Patents of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority in any foreign country on the basis of the above patent application (if any), as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for patent which may hereafter be filed for this invention in any foreign country and all patents which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Director of the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue patents

on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

AND, I HEREBY authorize and request, if necessary, that the attorneys having Power of Attorney in this application, insert above the filing date and application number of said application when known.

ALL of the above shall be held and enjoyed by said **CUBIST PHARMACEUTICALS, INC.**, for its own use and benefit, and for its successors, legal representatives and assigns, to the full end of the term for which said patent may be granted, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue the patent in accordance with this Assignment.

This assignment to have effect as of January 21, 2014.

02/26/14  
Date:

Qingyi Li  
Qingyi Li

Signed in my presence and acknowledged to be an assignment of the application herein  
above referred to:

WITNESS

Lexington MA  
Signed At (City/State)

Erin Johnson  
Name  
Erin Johnson  
Signature

2/26/14  
Date



**ASSIGNMENT**

WHEREAS, I, **Lily Cheng** of Chestnut Hill, Massachusetts, a citizen of the United States of America, have invented certain new and useful inventions, described in the following patent application:

**INHIBITING THE TRANSIENT RECEPTOR POTENTIAL A1 ION CHANNEL**  
**U.S Patent Application No. 14/160,333, filed January 21, 2014**

for which I am about to make or have made application for Patent of the United States;  
and

WHEREAS, **CUBIST PHARMACEUTICALS, INC.**, (hereinafter referred to as Assignee) a corporation having its principal place of business at 65 Hayden Avenue, Lexington, Massachusetts 02421, is desirous of acquiring all rights, title and interests in and to said invention, said applications, and in and to any and all patents which may be granted for or upon said invention and applications in the United States of America and anywhere in the world.

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this patent application, and all divisions, and continuations thereof, and all Patents of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority in any foreign country on the basis of the above patent application (if any), as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for patent which may hereafter be filed for this invention in any foreign country and all patents which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Director of the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue patents

on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

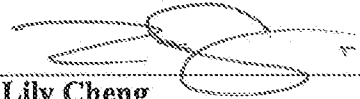
AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

AND, I HEREBY authorize and request, if necessary, that the attorneys having Power of Attorney in this application, insert above the filing date and application number of said application when known.

ALL of the above shall be held and enjoyed by said **CUBIST PHARMACEUTICALS, INC.**, for its own use and benefit, and for its successors, legal representatives and assigns, to the full end of the term for which said patent may be granted, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue the patent in accordance with this Assignment.

This assignment to have effect as of January 21, 2014.

2/26/14  
Date:


  
Lily Cheng

Signed in my presence and acknowledged to be an assignment of the application herein  
above referred to:

WITNESS

Lexington MA  
Signed At (City/State)

Erin Johnson  
Name

  
Signature

2/26/14  
Date

**ASSIGNMENT**

WHEREAS, I, **Christopher M. Liu** of Somerville, Massachusetts, a citizen of the United States of America, have invented certain new and useful inventions, described in the following patent application:

**INHIBITING THE TRANSIENT RECEPTOR POTENTIAL A1 ION CHANNEL**  
**U.S Patent Application No. 14/160,333, filed January 21, 2014**

for which I am about to make or have made application for Patent of the United States;  
and

WHEREAS, **CUBIST PHARMACEUTICALS, INC.**, (hereinafter referred to as Assignee) a corporation having its principal place of business at 65 Hayden Avenue, Lexington, Massachusetts 02421, is desirous of acquiring all rights, title and interests in and to said invention, said applications, and in and to any and all patents which may be granted for or upon said invention and applications in the United States of America and anywhere in the world.

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this patent application, and all divisions, and continuations thereof, and all Patents of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority in any foreign country on the basis of the above patent application (if any), as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for patent which may hereafter be filed for this invention in any foreign country and all patents which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Director of the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue patents

on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

AND, I HEREBY authorize and request, if necessary, that the attorneys having Power of Attorney in this application, insert above the filing date and application number of said application when known.

ALL of the above shall be held and enjoyed by said **CUBIST PHARMACEUTICALS, INC.**, for its own use and benefit, and for its successors, legal representatives and assigns, to the full end of the term for which said patent may be granted, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue the patent in accordance with this Assignment.

This assignment to have effect as of January 21, 2014.

02-26-2014  
Date:

Christopher M. Liu  
Christopher M. Liu

Signed in my presence and acknowledged to be an assignment of the application herein  
above referred to:

WITNESS

Lexington, MA  
Signed At (City/State)

Erin Johnson  
Name

E. Johnson  
Signature

2/26/14  
Date

**ASSIGNMENT**

WHEREAS, I, **Iwona E. Wrona** of Sharon, Massachusetts, a citizen of the United States of America, have invented certain new and useful inventions, described in the following patent application:

**INHIBITING THE TRANSIENT RECEPTOR POTENTIAL A1 ION CHANNEL**  
**U.S. Patent Application No. 14/160,333, filed January 21, 2014**

for which I am about to make or have made application for Patent of the United States;  
and

WHEREAS, **CUBIST PHARMACEUTICALS, INC.**, (hereinafter referred to as Assignee) a corporation having its principal place of business at 65 Hayden Avenue, Lexington, Massachusetts 02421, is desirous of acquiring all rights, title and interests in and to said invention, said applications, and in and to any and all patents which may be granted for or upon said invention and applications in the United States of America and anywhere in the world.

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this patent application, and all divisions, and continuations thereof, and all Patents of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority in any foreign country on the basis of the above patent application (if any), as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for patent which may hereafter be filed for this invention in any foreign country and all patents which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Director of the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue patents

on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

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This assignment to have effect as of January 21, 2014.

2/26/2014  
Date:

Iwona E. Wrona  
Iwona E. Wrona

Signed in my presence and acknowledged to be an assignment of the application herein  
above referred to:

WITNESS

Lexington, MA  
Signed At (City/State)

Erin Johnson  
Name

E. Johnson  
Signature

2/26/2014  
Date

**ASSIGNMENT**

WHEREAS, I, **Chester A. Metcalf III** of Needham, Massachusetts, a citizen of the United States of America, have invented certain new and useful inventions, described in the following patent application:

**INHIBITING THE TRANSIENT RECEPTOR POTENTIAL A1 ION CHANNEL**  
**U.S. Patent Application No. 14/160,333, filed January 21, 2014**

for which I am about to make or have made application for Patent of the United States;  
and

WHEREAS, **CUBIST PHARMACEUTICALS, INC.**, (hereinafter referred to as Assignee) a corporation having its principal place of business at 65 Hayden Avenue, Lexington, Massachusetts 02421, is desirous of acquiring all rights, title and interests in and to said invention, said applications, and in and to any and all patents which may be granted for or upon said invention and applications in the United States of America and anywhere in the world.

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this patent application, and all divisions, and continuations thereof, and all Patents of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority in any foreign country on the basis of the above patent application (if any), as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for patent which may hereafter be filed for this invention in any foreign country and all patents which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Director of the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue patents

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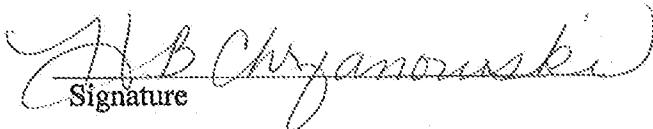
  
Chester A. Metcalf III

Signed in my presence and acknowledged to be an assignment of the application herein  
above referred to:

WITNESS

Needham, MA  
Signed At (City/State)

Heather A Barry-Chrzanowski  
Name

  
Signature

2/27/2014  
Date

**ASSIGNMENT**

WHEREAS, I, **Andrew J. Jackson** of Waltham, Massachusetts, a citizen of the United States of America, have invented certain new and useful inventions, described in the following patent application:

**INHIBITING THE TRANSIENT RECEPTOR POTENTIAL A1 ION CHANNEL**  
**U.S. Patent Application No. 14/160,333, filed January 21, 2014**

for which I am about to make or have made application for Patent of the United States;  
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WHEREAS, **CUBIST PHARMACEUTICALS, INC.**, (hereinafter referred to as Assignee) a corporation having its principal place of business at 65 Hayden Avenue, Lexington, Massachusetts 02421, is desirous of acquiring all rights, title and interests in and to said invention, said applications, and in and to any and all patents which may be granted for or upon said invention and applications in the United States of America and anywhere in the world.

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, and this patent application, and all divisions, and continuations thereof, and all Patents of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority in any foreign country on the basis of the above patent application (if any), as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for patent which may hereafter be filed for this invention in any foreign country and all patents which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Director of the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue patents

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AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

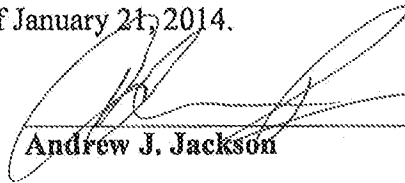
AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

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This assignment to have effect as of January 21, 2014.

2/26/14  
Date:

  
Andrew J. Jackson

Signed in my presence and acknowledged to be an assignment of the application herein  
above referred to:

WITNESS

Lexington, MA  
Signed At (City/State)

Erin Johnson  
Name

E. Johnson  
Signature

2/26/14  
Date