

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3215198

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
JAMES M. APGAR	08/02/2013
TESFAYE BIFTU	08/05/2013
PING CHEN	08/02/2013
DANQING FENG	08/02/2013
JACQUELINE D. HICKS	08/02/2013
AHMET KEKEC	08/02/2013
KENNETH J. LEAVITT	08/02/2013
BING LI	08/02/2013
IYASSU SEBHAT	08/02/2013
XIAOXIA QIAN	08/05/2013
LAN WEI	08/02/2013
ROBERT R. WILKENING	08/02/2013
ZHICAI WU	08/05/2013
ASHOK ARASAPPAN	08/02/2013

**RECEIVING PARTY DATA**

<b>Name:</b>	MERCK SHARP & DOHME CORP.
<b>Street Address:</b>	126 EAST LINCOLN AVENUE
<b>Internal Address:</b>	RY86-2011A
<b>City:</b>	RAHWAY
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07065

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	14419825

**CORRESPONDENCE DATA**

**Fax Number:** (732)594-4720

*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.*

**Phone:** 732 594-4000

<b>Email:</b>	us_efs@merck.com
<b>Correspondent Name:</b>	MERCK & CO., INC.
<b>Address Line 1:</b>	P. O. BOX 2000
<b>Address Line 2:</b>	RY86-2011A
<b>Address Line 4:</b>	RAHWAY, NEW JERSEY 07065

<b>ATTORNEY DOCKET NUMBER:</b>	23279-US-PCT
<b>NAME OF SUBMITTER:</b>	PAMELA SPALDING
<b>SIGNATURE:</b>	/Pamela Spalding/
<b>DATE SIGNED:</b>	02/06/2015

**Total Attachments: 8**

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WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- |   |  |
|---|--|
| (1) James M. Apgar, located at Highland, NJ           | (8) Bing Li, located at Towaco, NJ                 |
| (2) Tesfaye Biftu, located at Freehold, NJ            | (9) Iyassu Sebhat, located at Jersey City, NJ      |
| (3) Ping Chen, located at Edison, NJ                  | (10) Xiaoxia Qian, located at New York, NY         |
| (4) Danding Feng, located at Green Brook, NJ          | (11) Lan Wei, located at Berkeley Heights, NJ      |
| (5) Jacqueline D. Hicks, located at Scotch Plains, NJ | (12) Robert R. Wilkening, located at Maplewood, NJ |
| (6) Ahmet Kecec, located at Jersey City, NJ           | (13) Zhicai Wu, located at Montvale, NJ            |
| (7) Kenneth J. Leavitt, located at Plainsboro, NJ     | (14) Ashok Arasappan, located at Bridgewater, NJ   |

(hereinafter ASSIGNOR(S)), is/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

NOVEL AZABENZIMIDAZOLE TETRAHYDROFURAN DERIVATIVES USEFUL AS AMP-ACTIVATED PROTEIN KINASE ACTIVATORS

and/or in the following application(s):

U.S. Provisional Application No. 61/692,021 filed on 08/22/2012;

U.S. Application No. 14/419,825 having a filing date of 02/05/2014; and

PCT International Application No. PCT/US13/055531 having a filing date of 08/19/2013.

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Merck Sharp & Dohme Corp., a corporation organized under the laws of the State of New Jersey, having an office at 126 East Lincoln Avenue, Rahway, New Jersey 07065, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said **ASSIGNEE** my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of **ASSIGNEE**, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said **ASSIGNEE**, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of **ASSIGNEE**, without further compensation or charge to said **ASSIGNEE**, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of **ASSIGNEE**, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

Executed this 2nd day of August, 2013.

James M. Apgar  
James M. Apgar

**ACKNOWLEDGEMENT**

State of New Jersey       )  
  ) s.s.:  
County of Union            )

On this 2nd day of August, 2013, personally appeared before me **James M. Apgar** to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Pamela S. Spalding  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 5th day of August, 2013.

Tesfaye Biftu  
Tesfaye Biftu

**ACKNOWLEDGEMENT**

State of New Jersey       )  
  ) s.s.:  
County of Union            )

On this 5th day of August, 2013, personally appeared before me **Tesfaye Biftu** to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Pamela S. Spalding  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 2nd day of August, 2013.

Ping Chen  
Ping Chen

**ACKNOWLEDGEMENT**

State of New Jersey       )  
  ) s.s.:  
County of Union            )

On this 2nd day of August, 2013, personally appeared before me **Ping Chen** to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Pamela S. Spalding  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 2nd day of August, 2013.

Danqing Feng  
Danqing Feng

**ACKNOWLEDGEMENT**

State of New Jersey       )  
  ) s.s.:  
County of Union            )

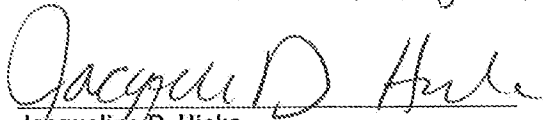
On this 2nd day of August, 2013, personally appeared before me **Danqing Feng** to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Pamela S. Spalding  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 2nd day of August, 20 13.

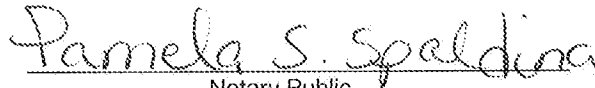
  
Jacqueline D. Hicks

**ACKNOWLEDGEMENT**

State of New Jersey           )  
  ) s.s.:  
County of Union               )

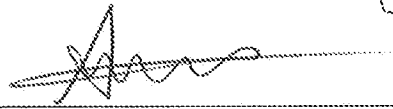
On this 2nd day of August, 20 13, personally appeared before me **Jacqueline D. Hicks** to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 2nd day of August, 20 13.

  
Ahmet Kecec

**ACKNOWLEDGEMENT**

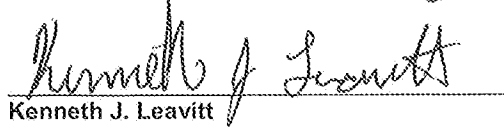
State of New Jersey           )  
  ) s.s.:  
County of Union               )

On this 2nd day of August, 20 13, personally appeared before me **Ahmet Kecec** to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

  
Notary Public

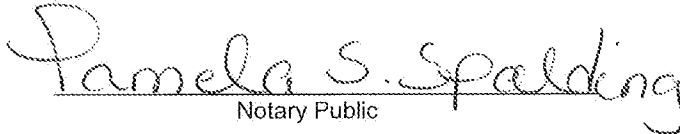
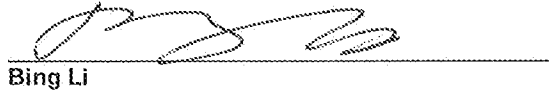
PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 2nd day of August, 2013.  
Kenneth J. Leavitt

## ACKNOWLEDGEMENT

State of New Jersey       )  
  ) s.s.:  
County of Union        )On this 2nd day of August, 2013, personally appeared before me **Kenneth J. Leavitt** to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

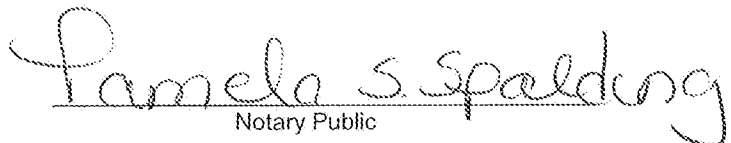
(Seal)

  
Notary PublicPAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014Executed this 2nd day of August, 2013.  
Bing Li

## ACKNOWLEDGEMENT

State of New Jersey       )  
  ) s.s.:  
County of Union        )On this 2nd day of August, 2013, personally appeared before me **Bing Li** to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

  
Notary PublicPAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 2nd day of August, 2013.

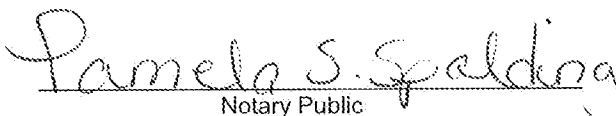
  
lyassu Sebhat

**ACKNOWLEDGEMENT**

State of New Jersey       )  
  ) s.s.:  
County of Union       )

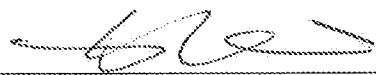
On this 2nd day of August, 2013, personally appeared before me lyassu Sebhat to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 5th day of August, 2013.

  
Xiaoxia Qian

**ACKNOWLEDGEMENT**

State of New Jersey       )  
  ) s.s.:  
County of Union       )

On this 5th day of August, 2013, personally appeared before me Xiaoxia Qian to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

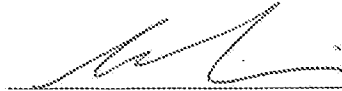
(Seal)

  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014



Executed this 2nd day of August, 2013.

  
\_\_\_\_\_  
Lan Wei

**ACKNOWLEDGEMENT**

State of New Jersey       )  
                                      ) s.s.:  
County of Union         )


On this 2nd day of August, 2013, personally appeared before me **Lan Wei** to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

  
\_\_\_\_\_  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 2nd day of August, 2013.

  
\_\_\_\_\_  
Robert R. Wilkening

**ACKNOWLEDGEMENT**

State of New Jersey       )  
                                      ) s.s.:  
County of Union         )

On this 2nd day of August, 2013, personally appeared before me **Robert R. Wilkening** to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

  
\_\_\_\_\_  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 5th day of August, 2013

Zhicai Wu

Zhicai Wu

## ACKNOWLEDGEMENT

State of New Jersey )  
 ) s.s.:  
County of Union )

On this 5th day of August, 2013, personally appeared before me **Zhicai Wu** to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Pamela S. Spalding  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014

Executed this 2nd day of August, 2013

Ashok Arasappan

Ashok Arasappan

## ACKNOWLEDGEMENT

State of New Jersey )  
 ) s.s.:  
County of Union )

On this 2nd day of August, 2013, personally appeared before me **Ashok Arasappan** to me known, and known by me to be the same person(s) described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.

(Seal)

Pamela S. Spalding  
Notary Public

PAMELA S. SPALDING  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires January 6, 2014