

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4440480

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ZIPING LIU	08/18/2016
JIANMIN FU	08/22/2016
ZHILONG WAN	08/19/2016
WEI LIU	08/19/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PHARMARON BEIJING CO., LTD.
<b>Street Address:</b>	6 TAI-HE ROAD, BDA
<b>City:</b>	BEIJING
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	100176
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15531759
<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>	732-594-4958
<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>	23874-US-PCT
<b>NAME OF SUBMITTER:</b>	STEPHANIE RICARDO
<b>SIGNATURE:</b>	/Stephanie Ricardo/
<b>DATE SIGNED:</b>	06/01/2017
<b>Total Attachments: 6</b>	
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**PATENT**

**REEL: 042568 FRAME: 0092**

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Ziping Liu , located at Beijing 100176, China
- (2) Jianmin Fu , located at Beijing 100176, China
- (3) Zhilong Wan located at Beijing 102400, China,
- (4) Wei Liu , located at Beijing 100176, China,

(hereinafter ASSIGNOR(S)), together with **Phieng Siliphaivanh**, located at Newton, MA 02461, **Joey Methot**, located at Westwood, MA 02090, **Kathryn Ann Lipford**, located at Boston, MA 02118, **Danielle Molinari**, located at Brookline, MA 02445, **David L. Sloman**, located at Brookline, MA 02446, **David Witter**, located at Norfolk, MA 02056, **Hua Zhou**, located at Acton, MA 01720, **Christopher Boyce**, located at Flemington, NJ 08822, **Xianhai Huang**, located at Warren, NJ 07059, **Jongwon Lim**, located at Lexington, MA 02420, **David Guerin**, located at Natick, MA 01760, **Ganesh Babu Karunakaran**, located at Hosur 635 109, Tamil Nadu, India, and **Raman Kumar Bakshi** located at Edison, NJ 08820, are the inventors of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

ERK INHIBITORS

and in the following application(s):

PCT International Application No. PCT/CN2014/093860 having a filing date of December 15, 2014

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, Pharmaron Beijing Co., Ltd., a corporation organized under the laws of China, having an office at 6 Tai-He Road, BDA, Beijing, 100176 P. R. China 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.

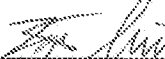
Worldwide Assignment

Attorney Docket No.: 23874

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.

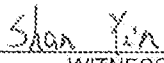
Executed this 18<sup>th</sup> day of August, 2016

  
Ziping Liu

**ACKNOWLEDGEMENT**

On this 18<sup>th</sup> day of August, 2016, personally appeared before me Ziping Liu, 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.

  
WITNESS

  
WITNESS

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Jianmin Fu

**ACKNOWLEDGEMENT**

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me Jianmin Fu, 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.

\_\_\_\_\_  
WITNESS

\_\_\_\_\_  
WITNESS

Executed this 9<sup>th</sup> day of August, 2016.

Zhilong Wan  
Zhilong Wan

ACKNOWLEDGEMENT

On this 9<sup>th</sup> day of August, 2016, personally appeared before me **Zhilong Wan**, 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.

Yongxia Zhang  
WITNESS

Shan Yin  
WITNESS

Executed this 9<sup>th</sup> day of August, 2016.

Wei Liu  
Wei Liu

ACKNOWLEDGEMENT

On this 9<sup>th</sup> day of August, 2016, personally appeared before me **Wei Liu**, 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.

Yongxia Zhang  
WITNESS

Shan Yin  
WITNESS

## WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

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- (2) Jianmin Fu , located at Beijing 100176, China
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## ERK INHIBITORS

and in the following application(s):

PCT International Application No. **PCT/CN2014/093860** having a filing date of **December 15, 2014**

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, Pharmaron Beijing Co., Ltd., a corporation organized under the laws of China, having an office at 6 Tai-He Road, BDA, Beijing, 100176 P. R. China 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 \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Ziping Liu

**ACKNOWLEDGEMENT**

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me **Ziping Liu**, 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.

\_\_\_\_\_  
WITNESS

\_\_\_\_\_  
WITNESS

Executed this 22 day of August, 2016

Jianmin Fu  
Jianmin Fu

**ACKNOWLEDGEMENT**

On this 22 day of August, 2016, personally appeared before me **Jianmin Fu**, 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.

[Signature]  
WITNESS

[Signature]  
WITNESS

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
**Zhilong Wan**

**ACKNOWLEDGEMENT**

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me **Zhilong Wan**, 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.

\_\_\_\_\_  
WITNESS

\_\_\_\_\_  
WITNESS

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_

\_\_\_\_\_  
**Wei Liu**

**ACKNOWLEDGEMENT**

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, personally appeared before me **Wei Liu**, 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.

\_\_\_\_\_  
WITNESS

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