

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ZHENWEI CAI	08/10/2018
DAWEI CUI	08/10/2018
JINGJING JI	08/10/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PHARMARESOURCES (SHANGHAI) CO., LTD.
<b>Street Address:</b>	BLDG. 9A, NO. 528 RUI QING RD.
<b>Internal Address:</b>	PUDONG
<b>City:</b>	SHANGHAI
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	201201
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16952257
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)607-9200
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<b>ATTORNEY DOCKET NUMBER:</b>	128748-20803
<b>NAME OF SUBMITTER:</b>	MEI BAI, PH.D.
<b>SIGNATURE:</b>	/Mei Bai/
<b>DATE SIGNED:</b>	02/18/2021
<b>Total Attachments: 4</b>	
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**ASSIGNMENT**

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, I, **Zhenwei CAI** (Citizenship: United States of America), QingLi Road, Lane 425, No. 66, Room 1102, HeQing Zhen, Pudong, Shanghai 201201, P.R. China; **Dawei CUI** (Citizenship: China), Room 9-1001, #288 Yaxiang Road, Jiading District, Shanghai 201802, P.R. China; and **Jingjing JI** (Citizenship: China), Room 302, No. 27, Lane 2077, Guangfuxi Road, Putuo District, Shanghai 200062, P.R. China,, all hereinafter referred to as said Assignor, hereby:

Sell, assign and transfer to **PharmaResources (Shanghai) Co., Ltd., 528 Ruiqing Road, Building 9A, Pudong, Shanghai 201201, China**, its successors, assigns and legal representatives, all hereinafter referred to as said Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the International Application for Patent filed with the United States Patent and Trademark Office as Receiving Office of the World Intellectual Property Organization in accordance with the Patent Cooperation Treaty (PCT) on

August 15, 2018

under International Application Serial No. PCT/US2018/000128

and

entitled **PYRUVATE KINASE ACTIVATORS FOR USE IN TREATING BLOOD DISORDERS**

and in and to said application and all continuing, divisional, continuation-in-part, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on said any and all inventions (including without limitation International Application No. PCT/CN2017/097496, filed August 15, 2017, and entitled PYRUVATE KINASE ACTIVATORS FOR USE IN TREATING BLOOD DISORDERS; U.S. Provisional Application No. 62/673,526, filed May 18, 2018 and entitled PYRUVATE KINASE ACTIVATORS FOR USE IN TREATING BLOOD DISORDERS; and U.S. Provisional Application No. 62/673,533, filed May 18, 2018, and entitled PYRUVATE KINASE ACTIVATORS FOR USE IN TREATING BLOOD DISORDERS); and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said any and all inventions including the right to apply for patent rights in each foreign country and all rights to priority; and further including any right to sue for past infringement;

Appoint, authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting in the spaces provided above the filing date and serial number of said application when known;

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

Request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee; and

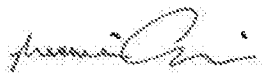
Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

Said Assignee does hereby acknowledge and accept the above sale, assignment and transfer of all the rights, title and interest enumerated above, including but not limited to the right to priority and the right to sue for past infringement.

In the event that the execution date, filing date and/or Application No. are not entered or are incorrect at the time Assignor executed this document, Assignor hereby authorizes and requests an attorney of Assignee to insert the information or make the correction.

**THE ASSIGNOR**


IN TESTIMONY WHEREOF, I Zhenwei CAI have executed this document on the date indicated below.

  
Signature of Inventor

Aug. 10, 2018  
Date

Shillman, New Jersey, USA  
Inventor's City and Country of Residence

**Witnessed by:**

  
Signature of Witness

2018-08-10  
Date

Qianli Li  
Print Witness Name

Shanghai, P.R. China  
Witness' City and Country of Residence

Li Zou  
Signature of Witness

2018-08-10  
Date

Li Zou  
Print Witness Name

Shanghai, P.R. China  
Witness' City and Country of Residence

THE ASSIGNOR

IN TESTIMONY WHEREOF, I Dawei CUI have executed this document on the date indicated below.

Dawei CUI  
Signature of Inventor

08-10-2018  
Date

Shanghai, China  
Inventor's City and Country of Residence

Witnessed by:

Dawei Li  
Signature of Witness

2018-08-10  
Date

Dawei Li  
Print Witness Name

Shanghai, P.R. China  
Witness' City and Country of Residence

Li Zou  
Signature of Witness

2018-08-10  
Date

Li Zou  
Print Witness Name

Shanghai, P.R. China  
Witness' City and Country of Residence

**THE ASSIGNOR**

IN TESTIMONY WHEREOF, I Jingjing Ji have executed this document on the date indicated below.

Jingjing Ji  
Signature of Inventor

Aug. 12 2018  
Date

Shanghai, P.R. China  
Inventor's City and Country of Residence

**Witnessed by:**

Qinli Li  
Signature of Witness

2018-08-10  
Date

Qinli Li  
Print Witness Name

Shanghai, P.R. China  
Witness' City and Country of Residence

Li Zou  
Signature of Witness

2018-8-10  
Date

Li Zou  
Print Witness Name

Shanghai, P.R. China  
Witness' City and Country of Residence

ACCEPTED AND AGREED TO BY ASSIGNEE: **PharmaResources (Shanghai) Co., Ltd.:**

Signature Jiang Shengli

Date: 2018-8-10

Printed name: Jiang Shengli

Title: Deputy GM