

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3480851

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAN ZHU	08/11/2015
JOHN BOYLAN	08/11/2015
SHUICHAN XU	08/11/2015
JENNIFER RIGGS	08/11/2015
TAO SHI	08/11/2015
ANDREW WURMSER	08/11/2015
DAVID MIKOLON	08/11/2015
GORDAFARIED DEYANAT-YAZDI	08/11/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SIGNAL PHARMACEUTICALS LLC
<b>Street Address:</b>	10300 CAMPUS POINT DRIVE SUITE 100
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14797548
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(404)581-8330
<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>	4045818339
<b>Email:</b>	mmao@jonesday.com
<b>Correspondent Name:</b>	MARTIN MAO
<b>Address Line 1:</b>	1420 PEACHTREE STREET, N.E.
<b>Address Line 2:</b>	SUITE 800
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30309
<b>ATTORNEY DOCKET NUMBER:</b>	10624-362-999
<b>NAME OF SUBMITTER:</b>	ZHAN MAO
<b>SIGNATURE:</b>	/Zhan Mao/

PATENT

<b>DATE SIGNED:</b>	08/12/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 7</b> source=560 US 10624-362-999 Declaration and Assignment#page1.tif source=560 US 10624-362-999 Declaration and Assignment#page2.tif source=560 US 10624-362-999 Declaration and Assignment#page3.tif source=560 US 10624-362-999 Declaration and Assignment#page4.tif source=560 US 10624-362-999 Declaration and Assignment#page5.tif source=560 US 10624-362-999 Declaration and Assignment#page6.tif source=560 US 10624-362-999 Declaration and Assignment#page7.tif	

## DECLARATION AND ASSIGNMENT

WHEREAS, WE, **DAN ZHU**, citizen of the United States of America, having a mailing address of 4432 Calle Mar De Armonia, San Diego, California, 92130, the United States of America residing at San Diego, California, the United States of America; **JOHN BOYLAN**, citizen of the United States of America, having a mailing address of 4 Desiree Ct., Bedminster, New Jersey, 07921, the United States of America residing at Bedminster, New Jersey, the United States of America; **SHUICHAN XU**, citizen of the United States of America, having a mailing address of 9650 Deer Trail Place, San Diego, California, 92127, the United States of America residing at San Diego, California, the United States of America; **JENNIFER RIGGS**, citizen of the United States of America, having a mailing address of 2136 Wales Dr., Cardiff, California, 92007, the United States of America residing at Cardiff, California, the United States of America; **TAO SHI**, citizen of China, having a mailing address of 13945 Gunniso Ct., San Diego, California, 92129, the United States of America residing at San Diego, California, the United States of America; **ANDREW WURMSER**, citizen of the United States of America, having a mailing address of 3652 Windswept Terrace, San Diego, California, 92130, the United States of America residing at San Diego, California, the United States of America; **DAVID MIKOLON**, citizen of the United States of America, having a mailing address of 6140 Calle Empinada, San Diego, California, 92120, the United States of America residing at San Diego, California, the United States of America; and **GORDAFARIED DEYANAT-YAZDI**, a citizen of the United States of America, having a mailing address of 16175 Rimstone Lane, San Diego, California, 92127, the United States of America residing at San Diego, California, the United States of America, ASSIGNORS, are the inventors of the invention in **METHODS OF TREATING A CANCER USING SUBSTITUTED PYRROLOPYRIMIDINE COMPOUNDS, COMPOSITIONS THEREOF** for which we have executed an application for a Patent of the United States,

☒ which is identified by Jones Day Docket No.: 10624-362-999

☒ which was filed on July 13, 2015, Application No.: 14/797,548

☐ We hereby authorize and request attorney(s) at Jones Day, to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

As above-named inventors, each of us hereby declares that:

This declaration is directed to:

☐ The attached application,

OR

☒ United States Application Number 14/797,548, filed on July 13, 2015.

The above-identified application was made or authorized to be made by me.

I believe I am an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

#### Authorization to Permit Access to Application by Participating Office

☒ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified patent application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified patent application is filed to have access to the above-identified patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the above-identified application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

and WHEREAS, **SIGNAL PHARMACEUTICALS, LLC**, a corporation organized and existing under the laws of the state of California, and having an office for the transaction of business at 10300 Campus Point Drive, Suite 100, San Diego, California 92121, ASSIGNEE, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such

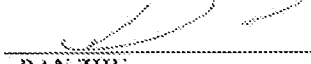
application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement;

AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 8/11/2015, 2015  L.S.  
DAN ZHU

Date 8/10/2015, 2015  L.S.  
JOHN BOYLAN

Date 8/11/2015, 2015  L.S.  
SHUICHAN XU

Date 8/11/2015, 2015  L.S.  
JENNIFER RIGGS

Date 8/11/2015, 2015  L.S.  
TAO SHI

Date 8/11/2015, 2015  L.S.  
ANDREW WURMSER

Date 8/11/2015, 2015  L.S.  
DAVID MIKOLON

Date 8/11/2015, 2015  L.S.  
GORDAFARJED DEYANAT-YAZDI

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA )

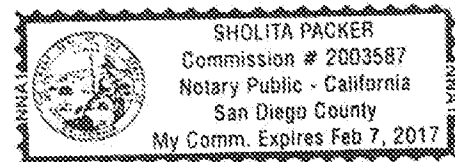
COUNTY OF SAN DIEGO )

On August 11, 2015 before me, SHOLITA PACKER, Notary Public, personally appeared DAN ZHU, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Sholita Packer (Seal)



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

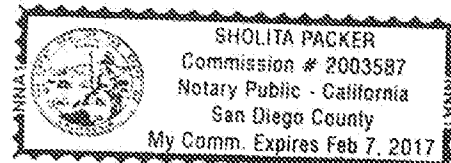
STATE OF CALIFORNIA )

COUNTY OF SAN DIEGO )

On August 11, 2015 before me, SHOLITA PACKER, Notary Public, personally appeared JOHN BOYLAN, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature Sholita Packer (Seal)



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA )

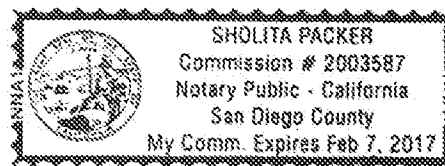
COUNTY OF SAN DIEGO )

On August 11, 2015 before me, SHOLITA PACKER, Notary Public, personally appeared SHUICHAN XU, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Sholita Packer* (Seal)



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA )

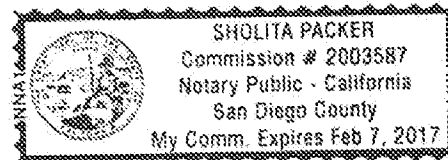
COUNTY OF SAN DIEGO )

On August 11, 2015 before me, SHOLITA PACKER, Notary Public, personally appeared JENNIFER RIGGS, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Sholita Packer* (Seal)



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA )

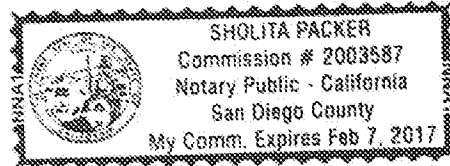
COUNTY OF SAN DIEGO )

On August 11, 2015 before me, SHOLITA PACKER, Notary Public, personally appeared TAO SHI, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Sholita Packer (Seal)



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA )

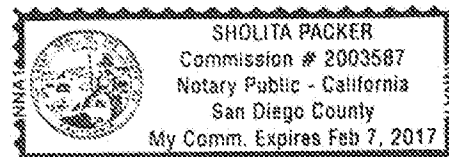
COUNTY OF SAN DIEGO )

On August 11, 2015 before me, SHOLITA PACKER, Notary Public, personally appeared ANDREW WURMSER, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Sholita Packer (Seal)



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA )

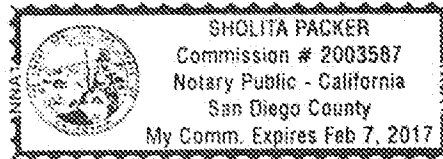
COUNTY OF SAN DIEGO )

On August 11, 2015 before me, SHOLITA PACKER, Notary Public, personally appeared **DAVID MIKOLON**, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature] (Seal)



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA )

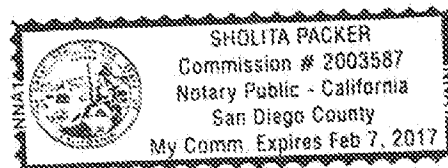
COUNTY OF SAN DIEGO )

On August 11, 2015 before me, SHOLITA PACKER, Notary Public, personally appeared **GORDAFARIED DEYANAT-YAZDI**, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.


WITNESS my hand and official seal.

Signature [Signature] (Seal)





ACCEPTED AND AGREED TO BY ASSIGNEE, SIGNAL PHARMACEUTICALS LLC:

Signature 

Date: 8/12/15

Printed name GREG REYES

Title SR VP Drug Discovery