PATENT ASSIGNMENT

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SUBMISSION TYPE: **NEW ASSIGNMENT** NATURE OF CONVEYANCE: **ASSIGNMENT**

CONVEYING PARTY DATA

Name	Execution Date
Somasekhar Bhamidipati	05/21/2009
Jeffrey Clough	05/18/2009
Ankush Argade	03/30/2009
Rajinder Singh	05/20/2009
Vadim Markovtosov	05/20/2009
Pingyu Ding	05/20/2009
Jiaxin Yu	05/20/2009
Andy Atuegbu	04/03/2009
Hui Hong	05/20/2009
Ihab Darwish	05/20/2009
Sambaiah Thota	01/04/2009

RECEIVING PARTY DATA

Name:	Rigel Pharmaceuticals, Inc.
Street Address:	1180 Veterans Boulevard
City:	South San Francisco
State/Country:	CALIFORNIA
Postal Code:	94080

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12371550

CORRESPONDENCE DATA

Fax Number: (206)682-6031

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

206-622-4900 Phone: Email: AmberM@SeedIP.com

Correspondent Name: Carol J.Roth

> **PATENT REEL: 023063 FRAME: 0866**

500930842

Address Line 1: 701 Fifth Avenue Address Line 2: Suite 5400 Address Line 4: Seattle, WASHINGTON 98104 ATTORNEY DOCKET NUMBER: 800050.418 NAME OF SUBMITTER: Carol J. Roth Total Attachments: 12 source=800050_418_ASSGN#page1.tif source=800050_418_ASSGN#page2.tif source=800050_418_ASSGN#page3.tif source=800050_418_ASSGN#page4.tif source=800050_418_ASSGN#page5.tif source=800050_418_ASSGN#page6.tif source=800050_418_ASSGN#page7.tif source=800050_418_ASSGN#page8.tif source=800050_418_ASSGN#page9.tif source=800050_418_ASSGN#page10.tif source=800050_418_ASSGN#page11.tif source=800050_418_ASSGN#page12.tif

> PATENT REEL: 023063 FRAME: 0867

ASSIGNMENT

WHEREAS, we,

Name	Residence Address	
Somasekhar Bhamidipati	888 Foster City Boulevard, #Q2, Foster City, California 94404	;
Jeffrey Clough	3520 Bay Road, Redwood City, California 94063	;
Ankush Argade	281 Winchester Court, Foster City, California 94404	
Rajinder Singh	1832 Hillman Avenue, Belmont, California 94022	;
Vadim Markovtosov	226 Bonita Lane, Foster City, California 94404	
Pingyu Ding	736 Bounty Drive, Apartment 3620, Foster City, California 94404	;
Jiaxin Yu	628 Chestnut Street, San Carlos, California 94070	 ;
Andy Atuegbu	5751 Penwood Lane, Dublin, California 94568	;
Hui Hong	240 Ventura Avenue, Palo Alto, California 94306	ţ
lhab Darwish	4 Azalea Lane, San Carlos, California 94070	; and
Sambiah Thota	4501 Guiso Common, Fremont, California 94536	

(hereinafter referred to as ASSIGNORS), having residence addresses as listed above next to our names, are the listed inventors/applicants of the patent application entitled "PYRIMIDINE-2-AMINE COMPOUNDS AND THEIR USE AS INHIBITORS OF JAK KINASES," as filed with the U.S. Patent and Trademark Office on February 13, 2009, and assigned Application No. 12/371,550, for which an application was filed on February 13, 2009 with the U.S. Receiving Office of the PCT and assigned Application No. PCT/US2009/034159, wherein both afore-mentioned applications claim the benefit of U.S. Provisional Patent Application No. 61/029,265 filed February 15, 2008; U.S. Provisional Patent Application No. 61/038,672 filed March 21, 2008; and U.S. Provisional Patent Application No. 61/112,046 filed November 6, 2008.

WHEREAS, **Rigel Pharmaceuticals, Inc.** (hereinafter referred to as ASSIGNEE), a corporation of the State of Delaware having a place of business at 1180 Veterans Boulevard, South San Francisco, California 94080, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention or letters patent therefor.

05	This Assignment is effective as of February 13, 2009.	Dominion .
Date	Somasekhar Bhamid	ipati
State of Cali	ornia	
County of _	Sun Mates	
On <u>May</u> personally a	21,2009, before me, Jaluen laur peared Samase Whav Chamidip	Falo, Notary Public
subscribed	to me on the basis of satisfactory evidence to be the of the within instrument and acknowledged to me that hauthorized capacity(ies), and that by his/per/their signature	ne/she/they executed the same in

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

or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary Public



Date Jeffrey Cloudy J
State of California County of San Mateo
on May 16, 2009 , before me, Tableen Law Yals, Notary Public, personally appeared
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. JASLEEN KAUR KALS Commission # 1807351
WITNESS my hand and official seal Notary Public - California San Francisco County My Comm. Expires Jul 25, 2012 Signatuje of Notary Public (Notary Seal)

3/30/09 Ankush Argac	
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State of California	
County of San Mako	
on Mayon 20, 2009, before me, Jallen Far personally appeared An Kush Angland (Here insert name and personally appeared to the basis of satisfactory evidence to subscribed to the within instrument and acknowledged to me his/her/their authorized capacity(ies), and that by his/her/their signs or the entity upon behalf of which the person(s) acted, executed	be the person(a) whose name(s) is/are that he/she/they executed the same in gnature(a) on the instrument the person(s).
I certify under PENALTY OF PERJURY under the laws of the Staparagraph is true and correct.	ate of California that the foregoing JASLEEN KAUR KALS
WITNESS my hand and official seal.	Commission # 1807351 Notary Public - California San Francisco County My Comm. Expires Jul 25, 2012
Signature of Notary Public	(Notary Seal)

Date Singh	gul S
State of California County of San Matco	
On May 10, 2009, before me, Jasley Kopersonally appeared Ray May Simple (Here igsert name and to subscribed to me on the basis of satisfactory evidence to subscribed to the within instrument and acknowledged to me his/her/their authorized capacity(ies), and that by his/her/their sign or the entity upon behalf of which the person(s) acted, executed the	be the person(s) whose name(s) is/are that he/she/they executed the same in
I certify under PENALTY OF PERJURY under the laws of the State paragraph is true and correct. WITNESS my hand and official seal.	JASLEEN KAUR KALS Commission # 1807351 Notary Public - California San Francisco County
~ 7.2	My Comm. Expires Jul 25, 2012

JASLEEN KAUR KALS
Commission # 1807351
Notary Public - California

San Francisco County
My Comm. Expires Jul 25, 2012

5/20/09 Date

Vadim Markovtosov

State of California

County of San Mateo

On May 20, 2009, before me, Jaslem Kay Lab, Notany Public personally appeared Vadin Mark 1500

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(jes), 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 of Notary Public

Date / Novey	Pinggu Ding	Application No. 12/371,550
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State of California		
County of San Makeo		
on May 2001, before me, personally appeared Pingul 1 who proved to me on the basis of satisfa subscribed to the within instrument and achis/her/their authorized capacity(ies), and the or the entity upon behalf of which the personal	actory evidence to be the cknowledged to me that he at by his/her/their signature(s	person(s) whose name(s) is/are
I certify under PENALTY OF PERJURY under paragraph is true and correct.	er the laws of the State of Cal	ifornia that the foregoing
WITNESS my hand and official seal.		JASLEEN KAUR KALS Commission # 1807351 Notary Public - California San Francisco County My Comm. Expires Jul 25, 2012

Jiaxin Yu State of California County of San Mateo 009 before me, Jalle who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/aresubscribed 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. JASLEEN KAUR KALS Commission # 1807351 Notary Public - California WITNESS my hand and official seal. San Francisco County My Comm. Expires Jul 25, 2012

4/3/09	S SEPPing Gre
Date	Andy Atuegbu
State of California	
County of <u>BLAMEDA</u>	
On April 3 2005, before me, personally appeared	Banga Gas Cos, Barang posic, (Here insert name and title of the officer)
who proved to me on the basis of satisfa subscribed to the within instrument and ac	actory evidence to be the person(s) whose name(s) is/are cknowledged to me that he/she/they executed the same in the by his/her/their signature(s) on the instrument the person(s)
I certify under PENALTY OF PERJURY unde paragraph is true and correct.	r the laws of the State of California that the foregoing
WITNESS my hand and official seal.	BARBARA ANN ROBY NOTARY PUBLIC-CALIFORNIA O COMM. EXP. JUNE 100
Signature of Notary Public	COMM. EXP. JUNE 25, 2009 (Notary Seal)

5/20/2009	~~
Date Hui Hong	
State of California	
County of Sur Mateo	
On May 20, 2009, before me, Juleon Here insert name a	Kaux Falls, Notary Pholic and title of the officer)
who proved to me on the basis of satisfactory evidence to subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the within instrument and acknowledged to make the subscribed to the subsc	me that he/she/they executed the same in
I certify under PENALTY OF PERJURY under the laws of the Sparagraph is true and correct.	State of California that the foregoing
WITNESS my hand and official seal.	JASLEEN KAUR KALS Commission # 1807351 Notary Public - California San Francisco County My Comm. Expires Jul 25, 2012
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05/20/2009 Daysed	
Date ' Ihab Darwish ·	
State of California	•
County of San Mateo	
On May 10, 2009, before me, Instantable of the officer) personally appeared I rab Dawish	aur Kalo, Notav
who proved to me on the basis of satisfactory evidence to be the perso subscribed to the within instrument and acknowledged to me that he/she/this/her/their authorized capacity(ise), and that by his/her/their signature(s) on the entity upon behalf of which the person(s) acted, executed the instrument.	frey executed the same in ne instrument the person(e),
I certify under PENALTY OF PERJURY under the laws of the State of California paragraph is true and correct.	a that the foregoing
WITNESS my hand and official seal.	JASLEEN KAUR KALS Commission # 1807351 Notary Public - California San Francisco County My Comm. Expires Jul 25, 2012
Signally of Motary Public (Notary Seal)	

01/04/2009	Boundaried.
Date Sambaiah Sambaiah	
State of California	
County of San Mateo	
On January 4, 2009, before me, Jasl personally appeared Sambaiah The	seen Your Kalo, Notary Public nser; name and title of the officer)
who proved to me on the basis of satisfactory ev subscribed to the within instrument and acknowled his/her/their authorized capacity(ies), and that by his/r or the entity upon behalf of which the person(s) acted,	ged to me that he/she/they executed the same in per/their signature(s) on the instrument the person(s),
I certify under PENALTY OF PERJURY under the laws paragraph is true and correct.	JASLEEN KAUR KALS
WITNESS my hand and official seal. Signature of Notary Public	Commission # 1807351 Notary Public - California San Francisco County My Comm. Expires Jul 25, 2012 (Notary Seal)
I certify under PENALTY OF PERJURY under the laws paragraph is true and correct. WITNESS my hand and official seal.	JASLEEN KAUR KALS Commission # 1807351 Notary Public - California San Francisco County My Comm. Expires Jul 25, 2012

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PATENT REEL: 023063 FRAME: 0879