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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Vadim Markovtsov	01/27/2012
Yasumichi Hitoshi	02/07/2012

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:	13333817

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	RIGL-070
NAME OF SUBMITTER:	James S. Keddie

Total Attachments: 2

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PATENT REEL: 027777 FRAME: 0973 TOP \$40.00 13333817

ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

Whole Blood Assay for Measuring AMPK Activation

(Atty. Docket N	No. (<u>RIGL-070/P.0270.00.US</u>), (check one)
bears U.S.	have executed a U.S. patent application on even date herewith. (Accompanying) which Application No. 13/333.817, filed on December 21, 2011. (Not Accompanying) which is isional application. (Accompanying)
A	d and valuable consideration, the receipt and sufficiency of which is hereby I, an undersigned inventor, hereby:
a place of busin entire right, title	Sell, assign and transfer to <u>Rigel Pharmaceuticals</u> , <u>Inc.</u> , a Delaware corporation having ess at <u>1180 Veterans Boulevard</u> , <u>South San Francisco</u> , <u>CA 94080</u> ("ASSIGNEE"), the e and interest in any and all improvements and inventions disclosed in, applications I patents granted upon (including foreign patents and the right to claim priority), the d application.
Patents resulting	Authorize and request the Commissioner of Patents to issue any and all United States g from said application or any division, continuation, substitute, renewal, re-examination of to the ASSIGNEE.
perform any acts as well as any d	Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, s which are reasonably necessary in connection with the prosecution of said application, erivative applications thereof, foreign applications based thereon, and/or the patents resulting from such applications.
ASSIGNEE, its	at the terms, covenants and conditions of this assignment shall inure to the benefit of the successors, assigns and other legal representatives, and shall be binding upon the I as the inventor's heirs, legal representatives and assigns.
•	Varrant and represent that I have not entered and will not enter into any assignment, erstanding that conflicts with this assignment.
6) A	authorize and request my attorney/agent to insert above the application No. in order to

Atty Docket No. RIGL-070/P.0270.00.US Serial No. Page 1 of 2 13/333,817, filed on December 21, 2011

Signed on the date indicated beside my signature.

assist with recordal of this assignment.

1. Inventor Signature: Vadim Markovtsov Date: 0/27/2012
State of California)) ss. County of <u>San Makeo</u>
On January 27, 78/2 before me, Teresa Marie Las and personally appeared Vadim Markovtsov, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/ass subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(iss), 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. TERESA MARIE LASAGA Commission # 1863176 Notary Public - California Signature My Comm. Expires Aug 23, 2013
2. Inventor Signature: Yasyonichi Hitoshi
State of California ()) ss. County of San Mateo ()
On John 17, 2012 before me. Terrs Marie Las a last a personally appeared Yasumichi Hitoshi, 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. TERESA MARIE LASAGA Commission # 1863176 Notary Public - California San Malso County My Comm. Expires Aug 29, 2013
"Aprilio the

Atty Docket No. RIGL-079/P.0270.00.US Serial No. Page 2 of 2 13/333,817, filed on December 21, 2011