

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ASTRAZENECA AB	01/08/2014
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: 2	
Property Type	Number
Application Number:	13559805
Application Number:	61512621
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	13-1020-US
NAME OF SUBMITTER:	MICHAEL S. GREENFIELD
Signature:	/Michael S. Greenfield/
Date:	01/09/2014
Total Attachments: 3 source=Assignment AZ AB to Rigel#page1.tif source=Assignment AZ AB to Rigel#page2.tif source=Assignment AZ AB to Rigel#page3.tif	

PATENT ASSIGNMENT

This Assignment is made this 4th day of December 2013

BETWEEN ASTRAZENECA AB, a corporation organized and existing under the laws of Sweden
(Reg. No. 556011-7482), with registered office at SE-151-85, Södertälje, Sweden.
(hereinafter the "Assignor")

AND RIGEL PHARMACEUTICALS, INC., a corporation organized and existing under the laws
of Delaware, U.S.A., with its principal place of business located at 1180 Veterans
Boulevard, South San Francisco, California 94080, U.S.A (hereinafter the "Assignee")

WHEREAS, the Assignor is the applicant for the patent applications and patents set out in the attached
Schedule (hereinafter the "Patent Rights")

NOW THEREFORE in consideration of the sum of £1 paid by the Assignee to the Assignor, the
Assignor hereby sells, assigns and transfers its entire right, title and interest in and to the Patent Rights
as well as any and all continuation applications and/or divisional applications, and/or reissues thereof.

Assignor agrees, at the reasonable request of Assignee: (a) to execute and deliver any further
documents and to take any further actions reasonably necessary to enable Assignee to become the
registered owner of the Patent Rights and to secure the benefits of the rights hereby assigned; and (b)
to aid in securing and maintaining patent protection for the Patent Rights throughout the world,
including, without limitation, cooperating in any proceedings involving examinations, re-examinations,
reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court
actions and the like.

Assignor hereby authorizes the Director of the United States Patent and Trademark Office and, as
appropriate, the corresponding officials of other countries, to record this Assignment.

The interpretation and construction of this Agreement shall be governed by the laws of Delaware and
the Assignor and Assignee hereby submit to the exclusive jurisdiction of the courts in the state of
Delaware for any action, suit or proceeding arising out of or relating to this Agreement.

NOTWITHSTANDING, the date of signing of this assignment document, both Assignor and Assignee
agree that this assignment is effective from the 4th date of December 2013.

IN WITNESS WHEREOF, the undersigned Assignor has executed the assignment this 8 day of
JANUARY 2014 at NICKLESFIELD, UK

Assignor: ASTRAZENECA AB

Sign: [Signature]
Name: Lucy Padgett
Title: Senior Patent Director

Witnessed by: [Signature]
Name: TIMOTHY JOHN DOBSON

Witnessed by: [Signature]
Name: D JONES

IN WITNESS WHEREOF, the undersigned Assignee has executed the assignment this 7 day of
JANUARY 2014 at SOUTH SAN FRANCISCO, CA

Assignee: RIGEL PHARMACEUTICALS, INC.

Sign: [Signature]
Name: Travis Young
Title: Executive Director, Intellectual Property

Witnessed by: [Signature]
Name: Teresa Lasaga

Witnessed by: [Signature]
Name: Jennifer Zazi

Schedule

Case Reference	Country	Filing Number	Filing Date	Grant Number
104183-AR-NP	Argentina	P2012 01 02755	27 Jul 2012	
104183-BS-NP	Bahamas	2471	19 Dec 2012	
104183-GC-NP	Gulf Cooperation Council	2012/21851	25 Jul 2012	
104183-JM-NP	Jamaica	18/1/5318	13 Jul 2012	
104183-PA-NP	Panama	89809-01	27 Jul 2012	
104183-PK-NP	Pakistan			
104183-SA-NP	Saudi Arabia	112 33 0723	26 Jul 2012	
104183-TW-NP	Taiwan	101127261	27 Jul 2012	
104183-US-NP	USA	13/559805	27 Jul 2012	
104183-US-PSP	USA	61/512621	28 Jul 2011	
104183-UY-NP	Uruguay	34.223	26 Jul 2012	
104183-VE-NP	Venezuela	931-12	26 Jul 2012	
104183-WO-PCT	PCT	PCT/GB2012/051791	26 Jul 2012	