PATENT ASSIGNMENT

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hui Hong</td>
<td>05/12/2006</td>
</tr>
<tr>
<td>Eileen Goldstein</td>
<td>05/12/2006</td>
</tr>
<tr>
<td>Emily Stauffer</td>
<td>05/15/2006</td>
</tr>
<tr>
<td>Dane Goff</td>
<td>05/12/2006</td>
</tr>
<tr>
<td>Rao Kolluri</td>
<td>05/12/2006</td>
</tr>
<tr>
<td>Ihab Darwish</td>
<td>05/12/2006</td>
</tr>
<tr>
<td>Rajinder Singh</td>
<td>05/15/2006</td>
</tr>
<tr>
<td>Henry Lu</td>
<td>05/12/2006</td>
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RECEIVING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Rigel Pharmaceuticals, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address</td>
<td>1180 Veterans Boulevard</td>
</tr>
<tr>
<td>City</td>
<td>South San Francisco</td>
</tr>
<tr>
<td>State/Country</td>
<td>CALIFORNIA</td>
</tr>
<tr>
<td>Postal Code</td>
<td>94080</td>
</tr>
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PROPERTY NUMBERS Total: 1

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<th>Number</th>
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<tbody>
<tr>
<td>Application Number</td>
<td>11362553</td>
</tr>
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CORRESPONDENCE DATA

Fax Number: (312)913-0002

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

Email: docketing@mbbh.com

Correspondent Name: McDonnell Boehnen Hulbert & Berghoff

Address Line 1: 300 South Wacker Drive

Address Line 2: Suite 3100

Address Line 4: Chicago, ILLINOIS 60606
<table>
<thead>
<tr>
<th>NAME OF SUBMITTER:</th>
<th>Michael S. Greenfield</th>
</tr>
</thead>
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Total Attachments: 9

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ASSIGNMENT

Case No.: 05-169-A
Inventors: Hong, et al.
Date of Execution of Application: Filing Date: February 24, 2006

Serial No.: 11/362,553

In consideration of One Dollar ($1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

Rigel Pharmaceuticals, Inc.
1180 Veterans Boulevard
South San Francisco, California 94080
United States of America

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

Benzothiazoles Useful For Treating or Preventing HCV Infection

and identified as:

Case No. 05-169-A

in the offices of MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.
For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 11th day of May, 1981.

[Signature]

Hui Hong

State of California

County of San Mateo

The foregoing instrument was acknowledged before me this 17th day of May, 1981 by Hui Hong.

[Signature]

NOTARY PUBLIC
WITNESS my hand and seal this 12th day of May, 2002.

Eileen Goldstein

State of California
County of San Mateo

The foregoing instrument was acknowledged before me this 12th day of May, 2002 by Eileen Goldstein.

NOTARY PUBLIC

ELIZABETH RISNER
Commission # 1643204
Notary Public - California
San Mateo County
My Comm. Expires Feb 4, 2010
WITNESS my hand and seal this 15 day of May, 2021.

[Signature]
Emily Stauffer

State of California
County of San Mateo

The foregoing instrument was acknowledged before me this 15th day of
May, 2021 by Emily Stauffer.

[Signature]
NOTARY PUBLIC

[Notary Seal]
ELIZABETH RISNER
Commission # 1643204
Notary Public - California
San Mateo County
My Comm. Expires Feb 4, 2010
WITNESS my hand and seal this 12th day of May, 2004.

[Dane Goff]

State of California

County of San Mateo

The foregoing instrument was acknowledged before me this 12th day of May, 2004 by [Dane Goff].

[Notary Public]

ELIZABETH RISNER
Commission # 1643204
Notary Public - California
San Mateo County
My Comm. Expires Feb 4, 2010
WITNESS my hand and seal this 12th day of May, 2007.

Rao Kolluri

State of California
County of San Mateo

The foregoing instrument was acknowledged before me this 12th day of

ELIZABETH RISNER
Commission # 1643204
Notary Public - California
San Mateo County
My Comm. Expires Feb 4, 2010

NOTARY PUBLIC
WITNESS my hand and seal this ___ day of May, 2000.

Ihab Darwish

State of California

County of San Mateo

The foregoing instrument was acknowledged before me this ___ day of May, 2000 by Ihab Darwish.

ELIZABETH RISNER
Commission # 1643204
Notary Public - California
San Mateo County
My Comm. Expires Feb 4, 2010

NOTARY PUBLIC
WITNESS my hand and seal this 15th day of May, 2000

Rajinder Singh

State of California
County of San Mateo

The foregoing instrument was acknowledged before me this 15th day of May, 2000 by Rajinder Singh

Elizabeth Eisen
Commission # 1643204
Notary Public - California
San Mateo County
My Comm. Expires Feb 4, 2010

NOTARY PUBLIC
WITNESS my hand and seal this ___ day of ___

[Signature]

Henry Lu

State of California
County of San Mateo

The foregoing instrument was acknowledged before me this ___ day of ___

[Signature]

NOTARY PUBLIC