

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7258127

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HUI LI	07/21/2006
SAMBAIAH THOTA	07/20/2006
DAVID CARROLL	07/21/2006
ANKUSH ARGADE	07/21/2006
KIN TSO	07/21/2006
ARVINDER SRAN	07/21/2006
JEFFREY CLOUGH	07/20/2006
SOMASEKHAR BHAMIDIPATI	07/21/2006
VANESSA TAYLOR	07/21/2006
ROBIN COOPER	07/21/2006
RAJINDER SINGH	07/21/2006
BRIAN WONG	08/29/2006
HOLGER KEIM	08/29/2006
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	RIGEL PHARMACEUTICALS, INC.
<b>Street Address:</b>	1180 VETERANS BOULEVARD
<b>City:</b>	SOUTH SAN FRANCISCO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94080
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17517428
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(503)595-5301
<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>	15035955300
<b>Email:</b>	julie.morgan@klarquist.com
<b>Correspondent Name:</b>	KLARQUIST SPARKMAN, LLP
<b>Address Line 1:</b>	121 S.W. SALMON STREET, SUITE 1600

PATENT

<b>Address Line 4:</b> PORTLAND, OREGON 97204	
<b>ATTORNEY DOCKET NUMBER:</b>	7946-87492-39 SCS/JAM
<b>NAME OF SUBMITTER:</b>	STACEY C. SLATER
<b>SIGNATURE:</b>	/Stacey C. Slater/
<b>DATE SIGNED:</b>	03/31/2022
<b>Total Attachments: 27</b> source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif source=Assignment#page10.tif source=Assignment#page11.tif source=Assignment#page12.tif source=Assignment#page13.tif source=Assignment#page14.tif source=Assignment#page15.tif source=Assignment#page16.tif source=Assignment#page17.tif source=Assignment#page18.tif source=Assignment#page19.tif source=Assignment#page20.tif source=Assignment#page21.tif source=Assignment#page22.tif source=Assignment#page23.tif source=Assignment#page24.tif source=Assignment#page25.tif source=Assignment#page26.tif source=Assignment#page27.tif	

# ASSIGNMENT

Hui LI, residing at 870 2576 Amethyst Dr., Santa Clara, California 95051; Sambaiah THOTA residing at 4501 Guiso Common, Fremont, California 94536; David CARROLL, residing at 87 Dolores Street, Apt 105, San Francisco, California 94103-1048; Ankush ARGADE, residing at 639-1 Catamaran Street, Foster City, California 94404; Kin TSO, residing at 142 Mateo Avenue, San Francisco, California 94131; Arvinder SRAN, residing at 39900 Blacow Rd. #19, Fremont, California 94538; Jeffrey CLOUGH, residing at 3520 Bay Road, Redwood City, California 94063; Holger KEIM, residing at 376 Newtown Road, Wyckoff, New Jersey 07481; Somasekhar BHAMIDIPATI, residing at 888 Foster City Blvd. #Q2, Foster City, California 94404; Vanessa TAYLOR, residing at 518 Noe St., #3, San Francisco, California 94114; Robin COOPER, residing at 1628 Gauava Trail, St. George Island, Florida 32328; Rajinder SINGH, residing at 1832 Hillman Avenue, Belmont, California 94002; Brian WONG, residing at 430 Los Altos Avenue, Los Altos, California 94022; (referred to as "Assignors") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled

## APPARATUS AND METHOD FOR COMPUTER MODELING TYPE 1 DIABETES

and which is a:

- (1) ☐ provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☐ bearing Application \_\_\_\_\_, and filed on \_\_\_\_\_; or
- (2) ☒ non-provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☒ bearing Application 11/450,901, and filed on 8 June 2006.

WHEREAS Rigel Pharmaceuticals, Inc., a having its principal place of business at 1180 Veterans Blvd., South San Francisco, CA 94080 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to these application(s); any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignors have not done so already via a prior agreement with the Assignee, or if the Assignors have already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignors' entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the proceeding paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) - (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made.

The Assignors hereby represent to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignors are lawful owners of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that the Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

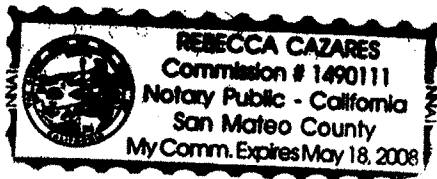
The Assignors hereby request the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Executed this 21 day of July, 2006.

State of California )  
County of San Mateo )ss.

HUI LI  
HUI LI

On this 21 day of July, 2006, before me, a notary public in and for said county, appeared HUI LI, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



(Seal)

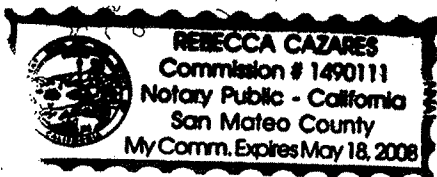
Rebecca Cazares  
Notary Public  
My Commission Expires: 5-18-2008

Executed this 20 day of July, 2006.

State of California )  
County of San Mateo )ss.

SAMBAIAH THOTA  
SAMBAIAH THOTA

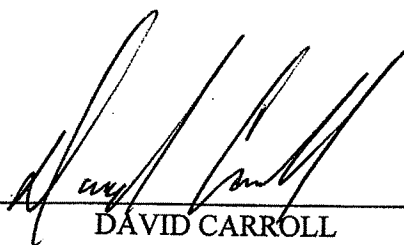
On this 20 day of July, 2006, before me, a notary public in and for said county, appeared SAMBAIAH THOTA, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



(Seal)

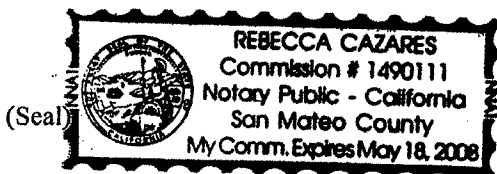
Rebecca Cazares  
Notary Public  
My Commission Expires: May 18, 2008

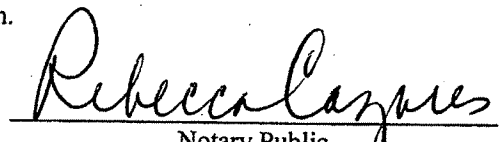
Executed this \_\_\_\_ day of July 21, 2006.

  
DAVID CARROLL

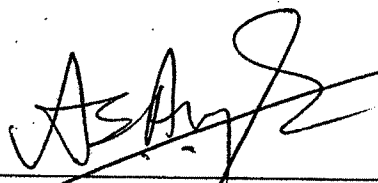
State of California )  
County of San Mateo )ss.

On this 21 day of July, 2006, before me, a notary public in and for said county, appeared DAVID CARROLL, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



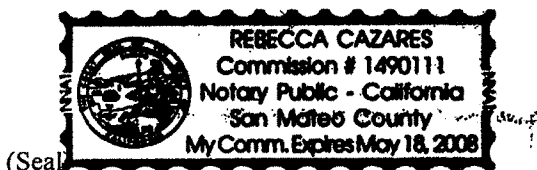
  
Notary Public  
My Commission Expires: 5-18-08

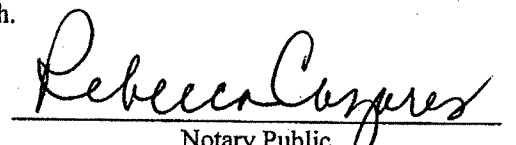
Executed this 21 day of July 21, 2006.

  
ANKUSH ARGADE

State of California )  
County of San Mateo )ss.

On this 21 day of July, 2006, before me, a notary public in and for said county, appeared ANKUSH ARGADE, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



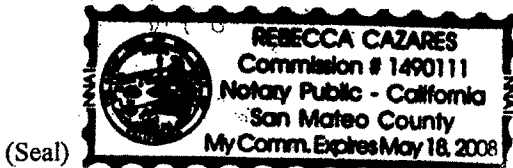
  
Notary Public  
My Commission Expires: 5-18-08

Executed this 21<sup>st</sup> day of July, 2006

State of California )  
County of San Mateo )ss.

[Signature]  
KIN TSO

On this 21 day of July, 2006, before me, a notary public in and for said county, appeared KIN TSO, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/~~she~~ acknowledged that he/~~she~~ signed, sealed, and delivered the said instrument as his/~~her~~ free and voluntary act for the uses and purposes therein set forth.



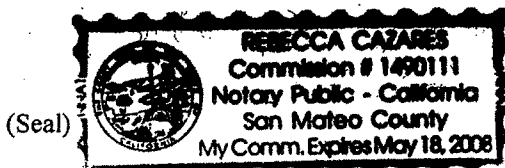
Rebecca Cazares  
Notary Public  
My Commission Expires: 5-18-08

Executed this 21 day of July, 2006.

State of California )  
County of San Mateo )ss.

Arvinder Sran  
ARVINDER SRAN

On this 21 day of July, 2006, before me, a notary public in and for said county, appeared ARVINDER SRAN, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/~~she~~ acknowledged that he/~~she~~ signed, sealed, and delivered the said instrument as his/~~her~~ free and voluntary act for the uses and purposes therein set forth.



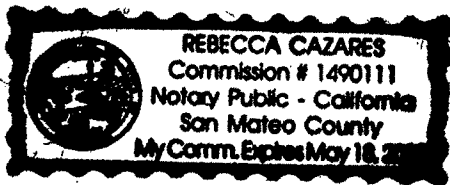
Rebecca Cazares  
Notary Public  
My Commission Expires: 5-18-08

Executed this 20 day of July, 2006

State of California  
County of San Mateo )ss.

Jeffrey Clough  
JEFFREY CLOUGH

On this 20 day of July, 2006, before me, a notary public in and for said county, appeared JEFFREY CLOUGH, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



(Seal)

Rebecca Cazares  
Notary Public

My Commission Expires: May 18, 2006

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ )ss.

\_\_\_\_\_  
HOLGER KEIM

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared HOLGER KEIM, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)



Executed this 21 day of July, 2006.

State of California  
County of San Mateo )ss.

[Signature]  
SOMASEKHAR BHAMIDIPATI

On this 21 day of July, 2006, before me, a notary public in and for said county, appeared SOMASEKHAR BHAMIDIPATI, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



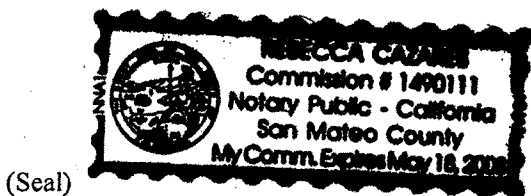
Rebecca Cazares  
Notary Public  
My Commission Expires: May 18, 2008

Executed this 21 day of July, 2006

State of California  
County of San Mateo )ss.

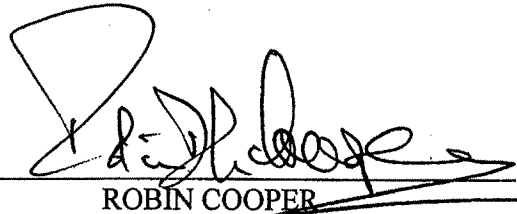
[Signature]  
VANESSA TAYLOR

On this 21 day of July, 2006, before me, a notary public in and for said county, appeared VANESSA TAYLOR, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



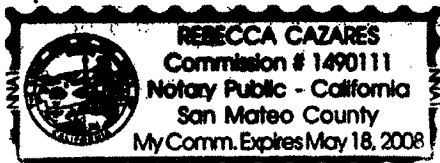
Rebecca Cazares  
Notary Public  
My Commission Expires: 5-18-08

Executed this 21 day of July, 2006.

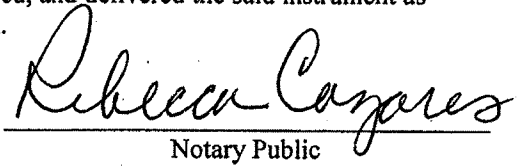
  
ROBIN COOPER

State of California  
County of San Mateo )ss.

On this 21 day of July, 2006, before me, a notary public in and for said county, appeared ROBIN COOPER, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

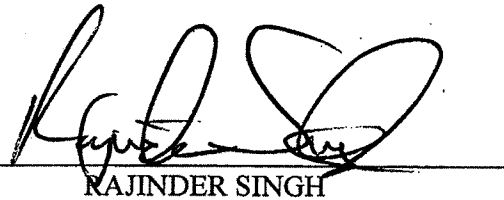


(Seal)

  
Notary Public

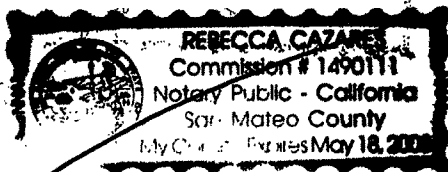
My Commission Expires: 5-18-08

Executed this 21 day of July, 2006

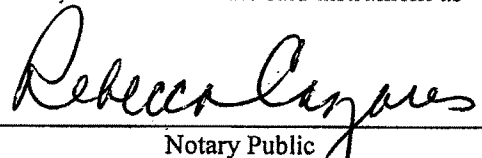
  
RAJINDER SINGH

State of California  
County of San Mateo )ss.

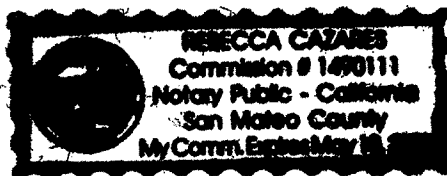
On this 21 day of July, 2006, before me, a notary public in and for said county, appeared RAJINDER SINGH, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



(Seal)

  
Notary Public

My Commission Expires: 5-18-08



Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
BRIAN WONG

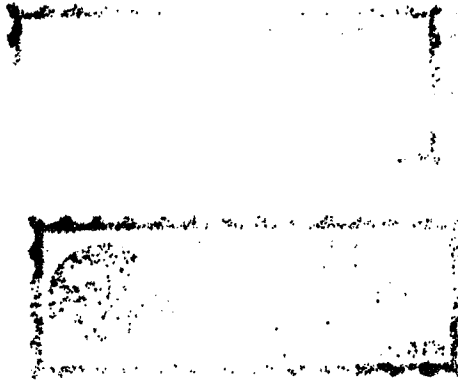
State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared BRIAN WONG, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)



# ASSIGNMENT

Hui LI, residing at 870 2576 Amethyst Dr., Santa Clara, California 95051; Sambaiah THOTA residing at 4501 Guiso Common, Fremont, California 94536; David CARROLL, residing at 87 Dolores Street, Apt 105, San Francisco, California 94103-1048; Ankush ARGADE, residing at 639-1 Catamaran Street, Foster City, California 94404; Kin TSO, residing at 142 Mateo Avenue, San Francisco, California 94131; Arvinder SRAN, residing at 39900 Blacow Rd. #19, Fremont, California 94538; Jeffrey CLOUGH, residing at 3520 Bay Road, Redwood City, California 94063; Holger KEIM, residing at 376 Newtown Road, Wycoff, New Jersey 07481; Somasekhar BHAMIDIPATI, residing at 888 Foster City Blvd. #Q2, Foster City, California 94404; Vanessa TAYLOR, residing at 518 Noe St., #3, San Francisco, California 94114; Robin COOPER, residing at 1628 Gauava Trail, St. George Island, Florida 32328; Rajinder SINGH, residing at 1832 Hillman Avenue, Belmont, California 94002; Brian WONG, residing at 430 Los Altos Avenue, Los Altos, California 94022; (referred to as "Assignors") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled

## APPARATUS AND METHOD FOR COMPUTER MODELING TYPE 1 DIABETES

and which is a:

- (1) ☐ provisional application
  - (a) ☐ to be filed herewith; or
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- (2) ☒ non-provisional application
  - (a) ☐ to be filed herewith; or
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WHEREAS Rigel Pharmaceuticals, Inc., a having its principal place of business at 1180 Veterans Blvd., South San Francisco, CA 94080 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to these application(s); any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignors have not done so already via a prior agreement with the Assignee, or if the Assignors have already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignors' entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the proceeding paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) - (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made.

The Assignors hereby represent to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignors are lawful owners of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that the Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignors hereby request the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
HUI LI

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared HUI LI, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
SAMBAIAH THOTA

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared SAMBAIAH THOTA, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
DAVID CARROLL

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared DAVID CARROLL, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
ANKUSH ARGADE

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared ANKUSH ARGADE, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
KIN TSO

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared KIN TSO, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
ARVINDER SRAN

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared ARVINDER SRAN, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)



Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
JEFFREY CLOUGH

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared JEFFREY CLOUGH, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
HOLGER KEIM

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared HOLGER KEIM, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
SOMASEKHAR BHAMIDIPATI

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared SOMASEKHAR BHAMIDIPATI, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
VANESSA TAYLOR

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared VANESSA TAYLOR, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
ROBIN COOPER

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared ROBIN COOPER, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
RAJINDER SINGH

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared RAJINDER SINGH, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)



# ASSIGNMENT

Hui LI, residing at 870 2576 Amethyst Dr., Santa Clara, California 95051; Sambaiah THOTA residing at 4501 Guiso Common, Fremont, California 94536; David CARROLL, residing at 87 Dolores Street, Apt 105, San Francisco, California 94103-1048; Ankush ARGADE, residing at 639-1 Catamaran Street, Foster City, California 94404; Kin TSO, residing at 142 Mateo Avenue, San Francisco, California 94131; Arvinder SRAN, residing at 39900 Blacow Rd. #19, Fremont, California 94538; Jeffrey CLOUGH, residing at 3520 Bay Road, Redwood City, California 94063; Holger KEIM, residing at 376 Newtown Road, Wycoff, New Jersey 07481; Somasekhar BHAMIDIPATI, residing at 888 Foster City Blvd. #Q2, Foster City, California 94404; Vanessa TAYLOR, residing at 518 Noe St., #3, San Francisco, California 94114; Robin COOPER, residing at 1628 Gauava Trail, St. George Island, Florida 32328; Rajinder SINGH, residing at 1832 Hillman Avenue, Belmont, California 94002; Brian WONG, residing at 430 Los Altos Avenue, Los Altos, California 94022; (referred to as "Assignors") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled

## APPARATUS AND METHOD FOR COMPUTER MODELING TYPE 1 DIABETES

and which is a:

- (1) ☐ provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☐ bearing Application \_\_\_\_\_, and filed on \_\_\_\_\_; or
- (2) ☒ non-provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☒ bearing Application 11/450,901, and filed on 8 June 2006.

WHEREAS Rigel Pharmaceuticals, Inc., a having its principal place of business at 1180 Veterans Blvd., South San Francisco, CA 94080 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to these application(s); any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignors have not done so already via a prior agreement with the Assignee, or if the Assignors have already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignors' entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the proceeding paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) - (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made.

The Assignors hereby represent to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignors are lawful owners of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that the Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignors hereby request the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
HUI LI

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared HUI LI, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
SAMBALAH THOTA

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared SAMBALAH THOTA, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
DAVID CARROLL

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared DAVID CARROLL, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
ANKUSH ARGADE

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared ANKUSH ARGADE, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)



Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
KIN TSO

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared KIN TSO, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
ARVINDER SRAN

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, a notary public in and for said county, appeared ARVINDER SRAN, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
JEFFREY CLOUGH

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared JEFFREY CLOUGH, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this 29 day of August, 2006.

State of NEW JERSEY )  
 )ss.  
County of BERGEN )

\_\_\_\_\_  
HOLGER KEIM

On this 29 day of August, 2006, before me, a notary public in and for said county, appeared HOLGER KEIM, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Kathleen A. Cuneo  
Notary Public

My Commission Expires: 9-22-2010

(Seal)

KATHLEEN A. CUNEO  
NOTARY PUBLIC  
STATE OF NEW JERSEY  
EXPIRES SEPTEMBER 22, 2010

Executed this 29 day of August, 2006.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
SOMASEKHAR BHAMIDIPATI

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared SOMASEKHAR BHAMIDIPATI, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
VANESSA TAYLOR

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared VANESSA TAYLOR, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
ROBIN COOPER

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared ROBIN COOPER, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

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State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
RAJINDER SINGH

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared RAJINDER SINGH, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

State of \_\_\_\_\_ )  
 )ss.  
County of \_\_\_\_\_ )

\_\_\_\_\_  
BRIAN WONG

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, a notary public in and for said county, appeared BRIAN WONG, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

(Seal)