FORM PTO-1595 1-31-92



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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

IOIENI	
To the Honorable Assistant Commissioner for Patents and Trademarks	s. Please record the attached original documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies): Name: RIGEL PHARMACEUTICALS, INC.
Ying LUO. Wen YU and James LORENS 5-16-0	Internal Address:
Additional name(s) of conveying party(ies) attached? [] Yes [X] No	MAY 8
3. Nature of Conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other	Street Address: 240 East Grand Avenue City: South San Francisco State: California Zip: 94080 Country: U.S.A.
Execution Date: 30 April 2001	Additional name(s) & address(es) attached? [] Yes [*] No
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the exe	ecution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
09/133.944	
Additional numbers attac	hed? [] Yes [x] No
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Robin M. SILVA Internal Address: FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP	7. Total fee (37 CFR § 3.41):\$ 40.00 [**] Enclosed [] Authorized to be charged to deposit account
Street Address: Four Embarcadero Center - Suite 3400	8. Deposit account number: 06-1300
City: San Francisco State: 94109-2485 Zip: 94111-4187	Please debit any underpayment or credit any overpayment to the above deposit account. Our Order NoA-66252/RMS/DHR (Attach duplicate of this page if paying by deposit account)
DO NOT USE	THIS SPACE YOE
Robin M. SILVA Name of Person Signing Name of Person Signing	information is true and correct and any attached copy 16 May 2001 Date Including cover sheet, attachments and document: [4]
OMB No. 0651-0011 (exp. 4/94)	
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Box Ass	of Patents and Trademarks ignments , DC 20231
File No. A-66252/RMS/DHR	Rev. 8/93 (39811) SF-1052012v1
NUMEDON 028849 00000000 05 (1984) NUMEDON 0288	

Attorney Docket No.: A-66252/RMS/DHR

ASSIGNMENT

WHEREAS, the undersigned, **Ying Luo**, 32 Chester Circle, Los Altos, California; **Pei Wen Yu**, 1060 Carolan Avenue, #117, Burlingame, California and **James Lorens**, 7 Berenda Way, Portola Valley, California (hereinafter termed "Inventors"), have invented certain new and useful improvements in <u>SHUTTLE VECTORS</u> and have executed an application for a United States patent disclosing and identifying the invention as Serial No. 09/133,944, filed August 14, 1998; and

WHEREAS, Rigel Pharmaceuticals, Inc. (hereinafter termed "Assignee"), a corporation of the State of California, having a place of business at 240 East Grand Avenue, South San Francisco, State of California, is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventors' certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

- 1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.
- 2. Said Inventors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and

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prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

- 3. The terms, covenants and conditions of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their heirs, legal representatives and assigns.
- 4. Said Inventors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREO	F, the said Inventors ha	ave executed and delivered this
instrument to said Assignee.		
		By The
		Ying Luo
County of	,)	
State of) ss. `	
State of	.)	
		, before me,,
Notary Public of the State of	, personally app	peared <u>Ying Luo</u> , personally knowr
to me (or proved to me on the b	pasis of satisfactory evid	idence) to be the person whose name is
subscribed to the within instrum	nent, and acknowledged	ed to me that he/she executed the same in
his/her authorized capacity(ies)), and that by his/her siç	gnature on the instrument the person, or
the entity upon behalf of which		•
WITNESS my hand and	official seal.	
Signature		(Seal)

By July 1
Pei Wen Yu
County of San Water)
() O. Man i a) ss.
State of California .)
On this 30 day of april, in the year 3001, before me, Rebecco Cazares
On this 30 day or 47 m, in the year 3007, before me, 7000 con 1000 grants
Notary Public of the State of <u>Calif</u> , personally appeared <u>Pei Wen Yu</u> , personally
known to me (or proved to me on the basis of satisfactory evidence) to be the person whose
name is subscribed to the within instrument, and acknowledged to me that he/she executed the
same in his/her authorized capacity(ies), and that by his/her signature on the instrument the
person, or the entity upon behalf of which the person acted, executed the instrument.
CONTROL AND
WITNESS my hand and official seal. REBECCA CAZARES
COMM # 1250353 NOTARY PUBLIC - CALIFORNIA
Signature Publica Office (Soul) SAN MATEO COUNTY (Soul)
му Солуп Ехр. Jan. 17, 2004 (Seat)
By What I was
James Lorens
County of San Mater), State of California)ss.
County of Fun // (accounty of Fun /
) ss.
State of Caufornia .)
On this 30 day of april, in the year 2001, before me, Rubicca Cozares
Notary Public of the State of <u>CALIF</u> , personally appeared <u>James Lorens</u> , personally
known to me (or proved to me on the basis of satisfactory evidence) to be the person whose
name is subscribed to the within instrument, and acknowledged to me that he/she executed the
same in his/her authorized capacity(ies), and that by his/her signature on the instrument the
person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.
REBECCA CAZARES COMM # 1250353
Signature Vote Coa States (Seal)
SAN MATEO COUNTY Wy Comm. Exp. Jan. 17, 2004
CONTRACTOR OF THE PROPERTY OF

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RECORDED: 05/18/2001

PATENT REEL: 011813 FRAME: 0578