To the honorable Commissioner of P.  I Name of Conveying purty(ies)  Esteban MASUDA Todd M. KINSELLA Justin E. WARNER Alsie KINOSHITA Mark K. BENNETT David C. ANDERSON Additional name(s) attached?   Yes     No 3. Nature of Conveying purty(ies)  Esteban MASUDA Todd M. KINSELLA Justin E. WARNER Alsie KINOSHITA Mark K. BENNETT David C. ANDERSON Additional name(s) of conveying purty(ies) attached?   Yes     No 3. Nature of Conveying purty(ies) attached?   Yes     No 3. Nature of Conveyonce:      Other:	Form PTO-1595 (Rev. 03/01)	10-21-200		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
1. Name of conveying party(tes):  Esteban MASUDA Todd M. KINSELLA Justin E. WARNER Taiset (KNOSHTA Mark K. BENNETT David C. ANDERSON Additional namets) of conveying party(tes) attached? □ Yes ☒ No 3. Nature of Conveyance:  [X] Assignment [] Merger □ Security Agreement [] Change of Name □ Other.  Esecution Date: 09/25/2002; 08/23/2002; 09/25/2002; 09/25/2002; 09/25/2002; 09/25/2002; 09/25/2002 and 09/17/2002, respectively  4. Application number(s) or patent number(s) If this document is being filed together with a new application, the execution date of the application is::    A. Parent Application No.(s): 10/197,919	OMB No. 0651-0027 (exp. 5/31/2002)				
Esteban MASUDA Todd M. KINSELLA Justin E. WARNER Taisei KINOSHITA Mark K. BENNETT David C. ANDERSON Additional name(s) of conveying party(ies) attached?    [] Security Agreement [] Change of Name [] Other:  Execution Date: 69/25/2002; 08/31/2002; 09/25/2002;	To the honorable Commissioner of P.	10225463	ached orig	ginal documents or copy thereof.	
3. Nature of Conveyance:  [X] Assignment [] Merger  [] Security Agreement [] Change of Name  [] Other:  Execution Date: 09/25/2002; 08/31/2002; 09/25/	Esteban MASUDA Todd M. KINSELLA Justin E. WARNER Taisei KINOSHITA Mark K. BENNETT David C. ANDERSON	•	Rigel Pharmaceu 240 East Grand	uticals, Inc. Avenue	
Assignment   [ ]   Merger     Change of Name     Other:   Execution Date: 09/25/2002; 08/31/2002; 09/25/2002; 09		s) attached? LI Yes La No			
Additional name(s) attached? [] Yes [X] No    Security Agreement   [] Change of Name   Additional name(s) attached? [] Yes [X] No   Security Date: 09/25/2002; 08/31/2002; 09/25/2002; 09/					
Additional name(s) attached? [] Yes [X] No  Execution Date: 09/25/2002; 08/31/2002; 09/25/2002, 09/25/2002; 09/25/	[X] Assignment [	] Merger			
Execution Date: 09/25/2002, 08/31/2002; 09/25/2002; 09/25/2002; 09/25/2002; 09/25/2002; 09/25/2002 and 09/17/2002, respectively  4. Application number(s) or patent number(s)  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s): 10/197,919  B. Patent No.(s)  Additional numbers attached?  [] Yes [X] No  Additional numbers attached?  [] Yes [X] No  [X] Enclosed  [Authorized to be charged to deposit account)  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the origin document.  Reg. No.: 36,583  Name of Person Signing:  Marcella Lillis, Ph.D.  Date 10-14-02  Total number of pages including cover sheet, attachments, and document: 16  Express Mail Label No.  EV 150771336 US  Date of Deposit  October 15, 2002  1 Provided the page of the property of the page of pages in page of pages in page of pages in page of pages in pages in page of pages in		] Change of Name	Additional name(s) attache	ed? [ ] Yes [X] No	
5. Name and address of party to whom correspondence concerning document should be mailed:  Patent Group Cooley Godward LLP Five Palo Alto Square 3000 El Camino Real Palo Alto, CA 94306-2155  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Reg. No.: 36,583  Name of Person Signing:  Marcella Lillis, Ph.D.  Signature:  Total number of pages including cover sheet, attachments, and document: 16  Express Mail Label No.  EV 150771336 US  Date of Deposit:  October 15, 2002  I hereby certify that this paper or fee is being deposited with the United States Postal Service Pexpress Mail Pool Office to Addressee' service un 37 OFR 1.10 on the date indicated above and is addressed to Box Assignment, Assistant Commissioner for Patents, Washington, D.C. 20231.  By:  Sonia Liberati	Execution Date: 09/25/2002; 08/31/20	02; 09/25/2002; 09/25/2002;		OFFIG 7mg	
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3000 El Camino Real Palo Alto, CA 94306-2155  8. Deposit account number: 03-3117 (Attach duplicate copy of this page if paying by deposit account)  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Reg. No.: 36.583  Name of Person Signing:  Marcella Lillis, Ph.D.  Signature:  Total number of pages including cover sheet, attachments, and document: 16  Express Mail Label No.  EV 150771336 US  Date of Deposit:  October 15, 2002  I hereby certify that this paper or fee is being deposited with the United States Postal Service Express Mail Post Office to Addressee" service un 37 OFR 1.10 on the date indicated above and is addressed to Box Assignment, Assistant Commissioner for Pitents, Washington, D.C. 20231.  By:  Sonia Liberati	document should be mailed:  Patent Group  Cooley Godward LLP	m correspondence concerning	7. Total Fee (37 CFR 3.4 [X] Enclosed	1)\$40.00	
8. Deposit account number: 03-3117 (Attach duplicate copy of this page if paying by deposit account)  DO NOT USE THIS SPACE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Reg. No.: 36,583 Name of Person Signing: Marcella Lillis, Ph.D.  Signature: Date 10-14-02  Total number of pages including cover sheet, attachments, and document: 16  Express Mail Label No. EV 150771336 US Date of Deposit: October 15, 2002  1 hereby certify that this paper or fee is being deposited with the United States Postal Service Express Mail Post Office to Addressee" service un 37 OFR 1.10 on the date indicated above and is addressed to Box Assignment, Assistant Commissioner for Patents, Washington, D.C. 20231.  Date: 10/15/02 By: Sonia Liberati	3000 El Camino Real		[] Authorized to be charged to deposit account		
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Sonia Liberati 18/2002 LMUELLER 00000258 10197919	I hereby certify that this paper or fee is be 37 9FR 1.10 on the date indicated above	eing deposited with the United S and is addressed to <b>Box Assign</b>	tates Postal Service "Expres ment, Assistant Commission	s Mail Post Office to Addressee" service und ner for Patents, Washington, D.C. 20231.	
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## ASSIGNMENT (Joint)

Esteban MASUDA, residing at 232 Oakhurst Place, Menlo Park, CA 94025 Todd M. KINSELLA, residing at 1275 Exeter Lane, Fayetteville NC 28314 Justin E. WARNER, residing at 194 Valmar Terr, San Francisco, CA 94112 Taisei KINOSHITA, residing at 688 Mariners Island Bl#208, San Mateo, CA 94404

Mark K. BENNETT, residing at 9 Fieldbrook Place, Moraga, CA 94456
David C. ANDERSON, residing at 200 Lassen Drive, San Bruno, CA 94066
(each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled METHODS OF IDENTIFYING COMPOUNDS THAT MODULATE IL-4 RECEPTOR-MEDIATED IGE SYNTHESIS UTILIZING A B-CELL ASSOCIATED PROTEIN, and which is a:

(1)	[] provisional application				
` ′	(a)	[] to be filed herewith; or			
	(b)	[] bearing Application No. , and filed on ; or			
(2)	[X] non-prov	sional application			
	(a)	[] to be filed herewith; or			
	(b)	[X] bearing Application No. 10/197,919, and filed on July 10	5,		
		2002			

WHEREAS, Rigel Pharmaceuticals, Inc., a corporation duly organized under and pursuant to the laws of Delaware, and having its principal place of business at 240 East Grand Avenue, 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); 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 Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

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

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- (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 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 Assignor had this sale and assignment not been made.

The Assignor hereby represents 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 Assignor is a lawful owner 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 Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor 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 Assignor hereby authorizes and requests the attorneys of COOLEY GODWARD L.L.P. to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignor hereby requests 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.

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Date:	By:
	Esteban MASUDA
State of	
County of	
satisfactory evidence, to be the person(s instrument and acknowledged to me that he/	onally known to me or proved to me on the basis of s) whose name(s) is/are subscribed to the within she/they executed the same in his/her/their authorized ature(s) on the instrument the person(s), or the entity ecuted the instrument.
WITNESS my hand and official seal.	
Signature of Notary Public	Place Notary Seal Above
Date: 31 AVG 2002	By: Todd M. KINSELLA
State of North Carolina ss. County of Cumberland	
On August 31, 2002, before n appeared Told W. Kinsella, pers satisfactory evidence, to be the person instrument and acknowledged to me that he	ne,
WITNESS my hand and official seal.	
Signature of Notary Public No. 1 Co.	Place Notary Seal Above
	S The U. 5.200

## ASSIGNMENT (Joint)

Esteban MASUDA, residing at 232 Oakhurst Place, Menlo Park, CA 94025 Todd M. KINSELLA, residing at 1275 Exeter Lane, Fayetteville NC 28314 Justin E. WARNER, residing at 194 Valmar Terr, San Francisco, CA 94112 Taisei KINOSHITA, residing at 688 Mariners Island Bl#208, San Mateo, CA 94404

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(1)	[] provisional	application				
	(a)	[] to be filed herewith; or				
	(b)	[] bearing Application No.	, and filed on	; or		
(2)	[X] non-provi	[X] non-provisional application				
	(a)	[] to be filed herewith; or				
	(b)	[X] bearing Application No.	10/197,919, and	d filed on July 16,		
	, ,	2002				

WHEREAS, Rigel Pharmaceuticals, Inc., a corporation duly organized under and pursuant to the laws of Delaware, and having its principal place of business at 240 East Grand Avenue, 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); and any patent(s) of the United States or other countries that may be granted therefor or thereon.

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

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- (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
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Attorney Docket No. RIGL-008/00US

Page 5

Date:	Ву:
	Mark K. BENNETT
State of	
SS.	
County of)	
appeared, perso satisfactory evidence, to be the person(s) instrument and acknowledged to me that he/s.	nally known to me or proved to me on the basis of whose name(s) is/are subscribed to the within he/they executed the same in his/her/their authorized ure(s) on the instrument the person(s), or the entity cuted the instrument.
WITNESS my hand and official sear.	}
Signature of Notary Public	Place Notary Seal Above
Date: Sept. 17, 2002	By: David C. ANDERSON
State of California ss.  County of Santa Clara	
On September 17, 2002, before me appeared Doul C. Anderson, perso satisfactory evidence, to be the person(s) instrument and acknowledged to me that he/s.	nally known to me or proved to me on the basis of whose name(s) is/are subscribed to the within he/they executed the same in his/her/their authorized ture(s) on the instrument the person(s), or the entity cuted the instrument.  NINA \$. KRAMER Commission # 1258852 Notary Public — Colfornia Samia Clara County My Comm. Expires Apr 28, 2004
Signature of Notary Public	Place Notary Seal Above

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The Assignor hereby authorizes and requests the attorneys of COOLEY GODWARD L.L.P. to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignor hereby requests 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.

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Date: 9/25/2	By: 121L
	Esteban MASUDA
State of Celyprinen	
County of San Mater SS.	
satisfactory evidence, to be the per	personally known to me or proved to me on the basis of son(s) whose name(s) is/are subscribed to the within
,	at he/she/they executed the same in his/her/their authorized signature(s) on the instrument the person(s), or the entity d, executed the instrument.
WITNESS my hand and official seal.  Signature of Notary Public	REBECCA CAZARES  COMM # 1250353  NOTARY PUBLIC - CALIFORNA B SAN MATEO COUNTY NIV COTTOT: EXP. Jan. 17, 2001  NOTARY PUBLIC - CALIFORNA B SAN MATEO COUNTY NIV COTTOT: EXP. Jan. 17, 2001  Notary Seal Above
Date:	
	Todd W. KINSELLA
State of	
On, before appeared, satisfactory evidence, to be the per instrument and acknowledged to me that	personally known to me or proved to me on the basis of son(s) whose name(s) is/are subscribed to the within at he/she/they executed the same in his/her/their authorized signature(s) on the instrument the person(s), or the entity d, executed the instrument.
Signature of Notary Public	Place Notary Seal Above

Attorney Docket No. RIGL-008/00US

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Date: 4/25/02 By: Wish Wa
Justin E. WARNER
State of Alestonia
State of
County of San Matto SS.
On September 15, 2002, before me, Relices Curius, personally appeared by 176, 2 4/6, 4 to personally known to me or proved to me on the basis of
appeared Justin 7. Warren personally known to me or 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(jes), 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.
WMNESS my hand and official seal.
COMM # 1250353
SAN MATEO COUNTY
Signature of Notary Public My Coron Exp. Jan. 17, 200 Disce Notary Seal Above
Date: 9/25/02 By: Jeise Crioblica
Taisei KINOSHITA
State of Chift mir )
SS.
County of An Mala
On September 25, 2012, before me, Rebecca Carpers, personally
appeared Justi Kinghiston, personally known to me or 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.
WITNESS my hand and official seal
COMM # 1250353  NOTARY PUBLIC - CALIFORNIA 2
SAN MATEO COUNTY Place Notary Seal Above
Summing Exp. Jan. 17, 2004 Television of the second of the

Attorney Docket No. RIGL-008/00US

Page 5

Date:	9/25/02	By:	Monte	Bitt
	Λ -	•		Mark K. BENNETT
State of	California )	***************************************		
County	of San Mater ss.	2	2	
On Algappeared satisfact	ptember 25, 2007, before Mark & Bennett ory evidence, to be the per	son(8) whose	name[8] is <del>/are</del> -	subscribed to the within
capacity	ent and acknowledged to me that (ies), and that by his/her/their half of which the person(s) acte	signature(s) on	the instrument	the person(8), or the entity
WITNE	SS my hand and official seal.	RE	BECCA CAZAR COMM # 1250353	ES 📱
Signatur	e of Notary Public		'ARY PUBLIC - CALIFON SAN MATEO COUNTY Comm Exp. Jan. 17, 20 Dimensioner (2000)	DOP) ce Notary Seal Above
Date: _		By:		avid C. ANDERSON
			L	avid C. ANDERSON
State of	ss.			
County	of)			
On	, befo	ore me,		, personally
instrum capacity	fory evidence, to be the per ent and acknowledged to me the v(ies), and that by his/her/their	rson(s) whose at he/she/they ex signature(s) on	name(s) is/are xecuted the sam the instrument	e in his/her/their authorized
•	half of which the person(s) actors is some seal.	eu, executea the	mstrument.	
Signatu	re of Notary Public			Place Notary Seal Above

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