### 503338970 06/05/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3385590

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
PASCAL EGEA	03/10/2011
ALEXEI KORENNYKH	03/10/2011
PETER WALTER	03/04/2011
KEVAN M. SHOKAT	03/07/2011
JANET S. FINER-MOORE	03/07/2011
ROBERT M. STROUD	03/07/2011
ANDREI KOROSTELEV	03/05/2011
CHAO ZHANG	03/04/2011

### **RECEIVING PARTY DATA**

Name:	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
Street Address:	1111 FRANKLIN STREET, 12TH FLOOR
City:	OAKLAND
State/Country:	CALIFORNIA
Postal Code:	94607

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14322765

#### **CORRESPONDENCE DATA**

**Fax Number:** (858)314-1501

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.

**Phone:** 8583141500

Email: LAHO@MINTZ.COM
Correspondent Name: ANSON M. NOMURA

Address Line 1: 3580 CARMEL MOUNTAIN ROAD SUITE 300

Address Line 2: MINTZ LEVIN

Address Line 4: SAN DIEGO, CALIFORNIA 92130

ATTORNEY DOCKET NUMBER:	48536-506C01US
NAME OF SUBMITTER:	ANSON M. NOMURA, REG. NO. 67,064
SIGNATURE:	/ANSON M. NOMURA, REG. NO. 67,064/

503338970 REEL: 035836 FRAME: 0008

PATENT

DATE SIGNED:	06/05/2015	
Total Attachments: 14		
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# **ASSIGNMENT**

For good and valuable con	nsideratio	on, the receipt of v	which is h	ereby acknowledg	ged, ASSIGNOR(S),
1. Peter Walter	2. Alex	ei Korennykh	3. Keva	n M. Shokat	4. Chao Zhang
5. Janet S. Finer-Moore	6. Robe	ert M. Stroud	7. Pasca	al Egea	8. Andrei A. Korostelev
Corporation, having its s 94607, and the successor	tatewide s, assigns territoria	administrative o and legal repres al possessions an	ffices loca entatives	ated 1111 Frankl of the ASSIGNE	niversity of California, a California in Street, 12th Floor., Oakland, CA E all of its right, title and interest for in and to, any and all improvements
METHODS AN	ID COM	POSITIONS FOR	R MODUL	ATING IRE1, S	RC, AND ABI ACTIVITY
and which is found in					
(a) X U.S. Provisio	nal Appli	cation Serial No.	60/997,5	73, filed on Octol	per 3, 2007
(b) X U.S. Provisio	nal Appli	cation Serial No.	61/097,1	73, filed on Septe	mber 15, 2008
(c) X PCT Patent A	pplicatio	n No. <u>PCT/US09</u>	9/056993,	filed on Septemb	er 15, 2009
and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;					
ASSIGNOR(S) hereby co				greement or encu	mbrance has been or will be made or
ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.					
AND the <u>ASSIGNOR(S)</u> requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, The Regents of the University of California.					
Executed this				Signature of Inv	entor(s)
1) day of	_, 2011	Peter Walter:		(For myself and Medical Institut	as an agent of the Howard Hughes
2) day of	_, 2011	Alexei Korenny	kh:		
3) day of	_, 2011	Kevan M. Shoka	at:	(For myself and Medical Institut	i as an agent of the Howard Hughes

Executed this		Signature of Inventor(s)
4) day of, 2011	Chao Zhang:	
5) day of, 2011	Janet S. Finer-Moore	
6) day of, 2011		
7) 10 day of 11 RCH, 2011	Pascal Egea:	
R) day of 2011	Androi A Vonastalov	(/

### **ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

1. Peter Walter 2. Alexei Korennykh 3. Kevan M. Shokat 4. Chao Zhang

5. Janet S. Finer-Moore 6. Robert M. Stroud 7. Pascal Egea 8. Andrei A. Korostelev

hereby sells, assigns and transfers to ASSIGNEE, The Regents of the University of California, a California Corporation, having its statewide administrative offices located 1111 Franklin Street, 12th Floor., Oakland, CA 94607, and the successors, assigns and legal representatives of the ASSIGNEE all of its right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

#### METHODS AND COMPOSITIONS FOR MODULATING IRE1, SRC, AND ABI ACTIVITY

and which is found in

- (a) X U.S. Provisional Application Serial No. 60/997,573, filed on October 3, 2007
- (b) X U.S. Provisional Application Serial No. 61/097,173, filed on September 15, 2008
- (c) X PCT Patent Application No. PCT/US09/056993, filed on September 15, 2009

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

<u>ASSIGNOR(S)</u> hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

AND the <u>ASSIGNOR(S)</u> requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, The Regents of the University of California.

Executed this		Signature of Inventor(s)
1) day of, 2011	Peter Walter:	(For myself and as an agent of the Howard Hughes
2) 10 day of March, 2011	Alexei Korennykh:	Medical Institute)
3) day of, 2011	Kevan M. Shokat:	(For myself and as an agent of the Howard Hughe

Atty Docket No.: <u>18062G-010810PC</u> UCSF Case No.: <u>SF08-156-3</u>

8) \_\_\_\_ day of \_\_\_\_\_\_, 2011 Andrei A. Korostelev

#### **ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),				
1. Peter Walter	2. Alexei Korennykh	3. Kevan M. Shokat	4. Chao Zhang	
5. Janet S. Finer-Moore	6. Robert M. Stroud	7. Pascal Egea	8. Andrei A. Korostelev	

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Executed this		Signature of Inventor(s)
1) 4 day of MARCH, 2011	Peter Walter:	W. Wall
		(For myself and as an agent of the Howard Hughes Medical Institute)
2) day of, 2011	Alexei Korennykh:	
3) day of, 2011	Kevan M. Shokat:	(For myself and as an agent of the Howard Hughes Medical Institute)

Atty Docket No.: <u>18062G-010810PC</u> UCSF Case No.: <u>SF08-156-3</u>

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Atty Docket No.: 18062G-010810PC UCSF Case No.: SF08-156-3

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1. Peter Walter 2. Ale	xei Korennykh	3. Kevan M. Shokat	4. Chao Zhang	
5. Janet S. Finer-Moore 6. Rob	ert M. Stroud	7. Pascal Egea	8. Andrei A. Korostelev	
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facts and documents relating to s accessible to ASSIGNOR and wil and will promptly execute and do affidavits required to apply for, of Patent and said equivalents there	aid invention and I testify as to the seliver to ASSIGN obtain, maintain, is cof which may be and requested by the	said Letters Patent and les same in any interference, li EE or its legal representati ssue or enforce said applice necessary or desirable to the execution of this assigni	provided promptly with all pertinent gal equivalents as may be known and tigation, or proceeding relating thereto ve any and all papers, instruments or cation, said invention and said Letters carry out the purposes thereof. An ment to insert into this assignment the	
			rks to issue said Letters Patent of the ents of the University of California.	
Executed this		Signature of Inv	entor(s)	
1) day of, 2011	Peter Walter:	(For myself and	as an agent of the Howard Hughes	
2) day of, 2011	Alexei Korenny	kh:		
3) 7 day of March, 2011	Kevan M. Shoka	(For myself and Medical Institut	d as an agent of the Howard Hughes e)	

Atty Docket No.: <u>18062G-010810PC</u> UCSF Case No.: <u>SF08-156-3</u>

8) \_\_\_\_ day of \_\_\_\_\_\_, 2011 Andrei A. Korostelev

### **ASSIGNMENT**

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AND the <u>ASSIGNOR(S)</u> requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, The Regents of the University of California.

Executed this		Signature of Inventor(s)	
1) day of, 2011	Peter Walter:	(For myself and as an agent of the Howard Hughes Medical Institute)	
2) day of, 2011	Alexei Korennykh:		
3) day of	Kevan M. Shokat:	(For myself and as an agent of the Howard Hughes Medical Institute)	

Executed this

Signature of Inventor(s)

4) \_\_\_ day of \_\_\_\_\_\_\_\_, 2011 Chao Zhang:

5) \_\_\_ day of \_\_\_\_\_\_\_\_, 2011 Janet S. Finer-Moore

6) \_\_\_ day of \_\_\_\_\_\_\_\_, 2011 Robert M. Stroud

7) \_\_\_ day of \_\_\_\_\_\_\_\_, 2011 Pascal Egea:

Atty Docket No.: <u>18062G-010810PC</u> UCSF Case No.: <u>SF08-156-3</u>

8) \_\_\_\_ day of \_\_\_\_\_\_, 2011 Andrei A. Korostelev

# **ASSIGNMENT**

For good and valuable cor	acidaretic	un the receipt of w	shiah is harahy saknayda	dgad ASSIGNOD(S)
_		•	•	
1. Peter Walter		ei Korennykh	3. Kevan M. Shokat	4. Chao Zhang
5. Janet S. Finer-Moore	6. Robe	ert M. Stroud	7. Pascal Egea	8. Andrei A. Korostelev
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Patent to be obtained for extension, conversion to	said inver 35 USC	ntion by the above 111(a) or substitu	e application or any cont te thereof, and any reiss	claim priority and, in and to, all Letter inuation, division, continuation-in-part ue, reexamination or extension of said tion of Industrial Property;
ASSIGNOR(S) hereby coentered into which would				umbrance has been or will be made o
facts and documents relat accessible to ASSIGNOR and will promptly execute affidavits required to app Patent and said equivaler	ing to sa and will e and del ly for, ob nts therecorized an	id invention and stestify as to the satisfied to the satisfied to the satisfied at the satisfied to the sati	said Letters Patent and learne in any interference, I EE or its legal representa sue or enforce said appli- necessary or desirable to e execution of this assign	e provided promptly with all pertinent egal equivalents as may be known and itigation, or proceeding relating thereto tive any and all papers, instruments of acation, said invention and said Letters of carry out the purposes thereof. An ament to insert into this assignment the
				arks to issue said Letters Patent of the gents of the University of California.
Executed this			Signature of In	ventor(s)
1) day of	_, 2011	Peter Walter:	(For myself an Medical Institu	d as an agent of the Howard Hughes ite)
2) day of	_, 2011	Alexei Korennyk	th:	<u> </u>
3) day of	_, 2011	Kevan M. Shokat	::	

PATENT REEL: 035836 FRAME: 0020

(For myself and as an agent of the Howard Hughes

Medical Institute)

Executed this Signature of Inventor(s) 4) \_\_\_\_ day of \_\_\_\_\_\_, 2011 Chao Zhang: 5) \_\_\_\_ day of \_\_\_\_\_, 2011 Janet S. Finer-Moore 6) \_\_\_\_\_ day of \_\_\_\_\_\_\_, 2011 Robert M. Stroud 7) \_\_\_\_ day of \_\_\_\_\_\_, 2011 Pascal Egea: Digitally signed by Andrei Korostelev DN: CN = Andrei Korostelev, C = US, O = University of Massachuserts Medical School, OU = RNA Therapeutics Institute and BMP Date: 2011.03.05 16:35:02 -05'00' Andrei Korostelev

Atty Docket No.: 18062G-010810PC UCSF Case No.: <u>SF08-156-3</u>

8) 5 day of March , 2011 Andrei A. Korostelev

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For good and valuable co	nsideratio	on, the receipt of v	which is hereby acknowled	dged, ASSIGNOR(S),
1. Peter Walter	2. Alex	ei Korennykh	3. Kevan M. Shokat	4. Chao Zhang
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Patent to be obtained for extension, conversion to	said inve	ntion by the abov 111(a) or substitu	re application or any conti tate thereof, and any reiss	laim priority and, in and to, all Letters nuation, division, continuation-in-part ue, reexamination or extension of said tion of Industrial Property;
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Executed this	-		Signature of In	ventor(s)
1) day of	, 2011	Peter Walter:	(For myself an Medical Institu	d as an agent of the Howard Hughes tte)
2) day of	, 2011	Alexei Korenny	kh:	
3) day of	, 2011	Kevan M. Shok		nd as an agent of the Howard Hughes

Execu	uted this			Signature of Inventor(s)
4)	<u>4</u> day of _	<u>March</u> , 2011	Chao Zhang:	<u>CZ</u>
5)	day of	, 2011	Janet S. Finer-Moore	
6)	day of	, 2011	Robert M. Stroud	
		****	D 15	
7)	_ day of _	, 2011	Pascal Egea:	
8)	day of	2011	Andrei A. Korostelev	

PATENT REEL: 035836 FRAME: 0023

**RECORDED: 06/05/2015**