503625234 12/28/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT MURRAY MCKINNELL	11/01/2011
DANIEL D. LONG	11/01/2011
LORI JEAN VAN ORDEN	11/01/2011
LAN JIANG	11/01/2011
MANDY LOO	11/01/2011
DAISUKE ROLAND SAITO	11/02/2011
SHEILA ZIPFEL	11/02/2011
ERIC L. STANGELAND	10/31/2011
KASSANDRA LEPACK	11/01/2011
GAVIN OGAWA	11/01/2011

RECEIVING PARTY DATA

Name:	THERAVANCE, INC.
Street Address:	901 GATEWAY BOULEVARD
City:	SOUTH SAN FRANCISCO
State/Country:	CALIFORNIA
Postal Code:	94080

PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	14539039			

CORRESPONDENCE DATA

503625234

Fax Number: (877)769-7945

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.

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Email: apsi@fr.com

Correspondent Name: ANITA MEIKLEJOHN

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Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER: 41503-0022002

REEL: 037362 FRAME: 0810

PAIENI

NAME OF SUBMITTER:	CHRISTINE M. GRACE	
SIGNATURE:	/Christine M. Grace/	
DATE SIGNED:	12/28/2015	
Total Attachments: 12		
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PATENT REEL: 037362 FRAME: 0811

Assignment

This **Assignment**, by **Robert Murray McKinnell** residing at 321 Poplar Avenue, Millbrae CA 94030; **Daniel D. Long**, residing at 10 Sunview Drive, San Francisco, CA 94131; **Lori Jean Van Orden**, residing at 3 Whitney Street, San Francisco, CA 94131; **Lan Jiang**, residing at 788 Santa Maria Lane, Foster City, CA 94404; **Mandy Loo**, residing at 2119 Imwalle Court, San Jose, CA 95131; **Daisuke Roland Saito** residing at 1600 E 3rd Avenue, #2803, San Mateo, CA 94401; **Sheila Zipfel**, residing at 22 N. San Mateo Drive, Apt. 205, San Mateo, CA 94401; **Eric L. Stangeland**, residing at 896 Corona Drive, Pacifica, CA 94044; **Kassandra Lepack**, residing at 3014 Los Prados Street, Apt. 300, San Mateo, CA 94403 and **Gavin Ogawa**, residing at 541 Hugo Street, San Francisco, CA 94122 (hereinafter referred to as "the **Assignors**"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in **NOVEL INHIBITORS OF HEPATITIS C VIRUS** as set forth in an application for Letters Patent of the United States.

	whic	h is a provisional application		
		to be filed herewith; or		
		bearing Application No.	and filed on	, or
×	whic	h is a non-provisional application		
	\boxtimes	to be filed herewith; or		
		bearing Application No	and filed on	; and

WHEREAS, **Theravance, Inc.**, a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 901 Gateway Boulevard, South San Francisco, California 94080 (hereinafter referred to as "the **Assignee**"), is desirous of acquiring the entire right, title and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor has 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 entire right, title and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon. and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same 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, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and Assignment not been made;

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PATENT REEL: 037362 FRAME: 0812 AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of the entire right, title and interest in and to the inventions set forth in said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives and assigns that the Assignor will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-inpart of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent or Patents for said inventions, without charge to the Assignor, its successors, legal representatives and assigns, but at the cost and expense of the Assignee, its successors, legal representatives and assigns,

AND the Assignor hereby requests the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee, as the Assignee of said inventions and the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives and assigns.

Attorney Docket: P-281-US1
Application Number: Unassigned

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Date <u>/2 / 20//</u> Signatur	e of Assignor <u>R/Mg/Mg//</u> Robert Murray McKinnell
State of California	
County of San Mateo	
On / November 2011 before me,	Maria Chuakay , Notary Public,
personally appeared Robert Murr	ay McKinnell
who proved to me on the basis of satisfactory evid	dence to be the person whose name is
subscribed to the within instrument and acknowle	dged to me that he executed the same in his
authorized capacity, and that by his signature on	the instrument the person, or the entity upon
behalf of which the person acted, executed the in	strument.
I certify under PENALTY OF PERJURY under the foregoing paragraph is true and correct.	e laws of the State of California that the
WITNESS my hand and official seal.	MARIA CHUAKAY Commission # 1874454
Maria Churley	Commission # 1874454 Notary Public - California San Mateo County My Comm. Expires Dec 24, 2013

Date	BT NOU	2011	Signatur	e of Assigr	or	/	(
***************************************	***************************************		•			Daniel [D. Long	
State of	Californ	<u>ia</u>	gargaganananan karastatatata					
County of	San Ma	teo						
		w 2011 j			Chuak	<u> </u>	Notary	Public.
•					. 1			
who prove	d to me on t	he basis of satis	sfactory evi	dence to be	e the perso	on whos	e name is	
subscribed	to the within	n instrument an	d acknowle	dged to me	e that he e	xecuted	the same	in his
authorized	capacity, ar	nd that by his si	gnature on	the instrum	nent the pe	rson, or	the entity	upon
behalf of w	hich the per	son acted, exec	cuted the in	strument.				
	,	·						
-		Y OF PERJUR		laws of th	e State of	Californ	ia that the	ţ
foregoing (paragraph is	true and correc	Ct.					
WITNESS	my hand an	d official seal.			te de la composition	IRIA CHUAR	KAY E	
1	ana O	leaday			Commi Notary San	ssion # 18 Public - Ca Mateo Cou	374454 Silifornia Silifornia Silifornia	

Date 01 Nov 2011	Signature of A	\ssignor	Lori Jean Van	Orden
State of <u>California</u>				0.00.
County of San Mateo				
On 1 November 2011	before me,	Maria	Chuckay,	Notary Public,
personally appeared			The A	
who proved to me on the basis of sa	atisfactory evide	ence to be t	the person whose	name is
subscribed to the within instrument a	and acknowled	ged to me t	hat she executed	the same in her
authorized capacity, and that by her	signature on th	- ne instrume	ent the person, or t	he entity upon
behalf of which the person acted, ex	ecuted the inst	rument.		
·				
I certify under PENALTY OF PERJU	JRY under the I	aws of the	State of California	that the
foregoing paragraph is true and corr	ect.			
WITNESS my hand and official seal			MARIA CHUAKA Commission # 1874 Notary Public - Calif	1454 § ornia §
Thanis Chustan			San Mateo Count My Comm. Expires Dec	24, 2013

Date of Nov: 2011	Signatur	e of Assig	norkan .	»// Jiang
State of <u>California</u>			* ;	
County of San Mateo				
On / November 2011	_ before me,	Maria	Chuakay,	Notary Public.
	Lan Jiang			
who proved to me on the basis of sa	atisfactory evi	dence to b	e the person who	se name is
subscribed to the within instrument	-			
authorized capacity, and that by her		_		
behalf of which the person acted, ex	-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,
I certify under PENALTY OF PERJU	JRY under the	e laws of th	ne State of Califor	nia that the
foregoing paragraph is true and corr	rect.:			
WITNESS my hand and official seal	Ĺ		MARIA CH	UAKAY 1874454
Marin Chestry			Notary Public San Mateo My Comm. Expires	- California 🚆
Signature of Notary Public	and and and the state of the st		১ ১ ৩১ বা লোভকা কাং আগবৃহ্য কিছিল িক	4. 6. 14. 44. 45. 45. 46.

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Date	Nov. 1.2011		Signature	e of Assign	or	Mandy	Lov
Pressure control of	<u> </u>	***************************************				Mar	ndy Loo
State of _	California	hiji hinah ujuh	······				
County of	San Mateo						
On	/ November	2011	_before me, _	Maria	Chu	akay,	Notary Public,
personally	y appeared	***********************	Mandy Loo				
who prove	ed to me on the l	basis of sa	tisfactory evic	lence to be	the p	erson who	ose name is
subscribe	d to the within in	strument a	and acknowle	dged to me	that s	she execu	ted the same in her
authorize	d capacity, and t	hat by her	signature on	the instrum	ent th	e person,	or the entity upon
behalf of	which the persor	ı acted, ex	ecuted the ins	strument.			
•	nder PENALTY (paragraph is tru			laws of the	e State	e of Califo	rnia that the
WITNESS	3 my hand and o	fficial seal.			aaaa K	MARIA CI	WAKAY
1	laria dua	Lay			y My	Notary Public San Matec Comm. Expire	# 1874454 - California # - County # 5 Dec 24, 2013

Attorney Docket: P-281-US1 Application Number: Unassigned

Signature of Notary Public

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DateNow_02~2001	Signature of Assignor Daisuke Roland Saito
State of <u>California</u>	
County of <u>San Madeo</u>	
On <u>2 November 2011</u>	before me, <u>Maria ChuaKay</u> , <u>Notary Public</u> ,
	Daisuke Roland Saito
who proved to me on the basis of sa	itisfactory evidence to be the person whose name is
subscribed to the within instrument a	and acknowledged to me that he executed the same in his
	signature on the instrument the person, or the entity upon
behalf of which the person acted, ex	
50.14.1. 0.1 11.1.0.1 11.0 p 0.100.1 12.0 12.1 12.1	
I certify under PENALTY OF PERJU	JRY under the laws of the State of California that the
foregoing paragraph is true and corre	ect.
WITNESS my hand and official seal.	MARIA CHUAKAY Commission # 1874454 Notary Public - California
Naria Churlay	San Mateo County My Comm. Expires Dec 24, 2013
Signature of Notary Public	
English	

Date/ ⁰ /	2,2011	Signature	of Assignor	Shella	Ziprof	
State ofC	alifornia	ARAMANAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAA			/	
County ofS	an Mateo					
On	<u>lovember 20</u>	before me, _	Maria	Chuakay,	Notary Public,	
personally appeared		Sheila Zipfel				
who 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 she executed the same in her						
authorized capacity, and that by her signature on the instrument the person, or the entity upon						
behalf of which the person acted, executed the instrument.						
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,				
I certify under PENALTY OF PERJURY under the laws of the State of California that the						
foregoing paragraph is true and correct.						
WITNESS my h	and and official	eal.		MARIA CHI Commission #	1874454	
Daria	durly			Notary Public - San Mateo (My Comm. Expires	County 👼	

Date <i>Q\$</i> _3 <i>1,291</i> /	Signature of Assignor Eric L. Stangeland					
State of <u>California</u>						
County of <u>San Mateo</u>						
On <u>31 October 2011</u>	_ before me, <u>Maria Chuakay / Notary Public,</u>					
personally appeared						
	atisfactory evidence to be the person whose name is					
subscribed to the within instrument and acknowledged to me that he executed the same in his						
authorized capacity, and that by his	signature on the instrument the person, or the entity upon					
behalf of which the person acted, e	xecuted the instrument.					
I certify under PENALTY OF PERJI foregoing paragraph is true and cor	URY under the laws of the State of California that the rect.					
WITNESS my hand and official sea	MARIA CHUAKAY Commission # 1874454					
Maria Chentay	Notary Public - California San Mateo County My Comm. Expires Dec 24, 2013 €					

Attorney Docket: P-281-US1 Application Number: Unassigned

Signature of Notary Public

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DateS ³ 201 Signature of AssignorKassandra Lepack						
State of <u>California</u>						
County of San Mateo						
On November 2011 before me, Naria Chiakay, Notary Public.						
personally appearedKassandra Lepack						
who 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 she executed the same in her						
authorized capacity, and that by her signature on the instrument the person, or the entity upon						
behalf of which the person acted, executed the instrument.						
I certify under PENALTY OF PERJURY under the laws of the State of California that the						
foregoing paragraph is true and correct.						
WITNESS my hand and official seal. MARIA CHUAKAY Commission # 1874454						
Notary Public - California San Mateo County My Comm. Expires Dec 24, 2013						
Signature of Notary Public						

Attorney Docket: P-281-US1 Application Number: Unassigned Page 11 of 12

Date <u>NOV 2011</u>	Signature of Assignor	AC Gavin	Ogawa			
State of <u>California</u>						
County of San Mateo	DAMESTER 1					
On 1 November 2011	_ before me, <u>Maria. C</u>	iuakay,	Notary Public,			
personally appeared Gavin Ogawa						
who 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 executed the same in his						
authorized capacity, and that by his signature on the instrument the person, or the entity upon						
behalf of which the person acted, executed the instrument.						
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.						
WITNESS my hand and official sea	CIA C	MARIA CHUAK Commission # 18	74454 💆			
Maria Austry		otary Public - Ca San Mateo Cou Comm. Expires Dec	inty 🖹			
Signature of Notary/Public						

Attorney Docket: P-281-US1 Application Number: Unassigned

RECORDED: 12/28/2015

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