# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
James BROWN	08/16/2012
Jian J. CHEN	08/16/2012
Vijay Keshav GORE	09/07/2012
Scott HARRIED	08/08/2012
Daniel B. HORNE	08/18/2012
Matthew R. KALLER	08/17/2012
Qingyian LIU	08/21/2012
Holger MONENSCHEIN	08/08/2012
Thomas T. NGUYEN	08/15/2012
Nobuko NISHIMURA	08/15/2012
Wenge ZHONG	08/15/2012

# **RECEIVING PARTY DATA**

Name:	AMGEN INC.
Street Address:	One Amgen Center Drive
City:	Thousand Oaks
State/Country:	CALIFORNIA
Postal Code:	91320-1799

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13529880

# **CORRESPONDENCE DATA**

**Fax Number**: 8054998011

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 805-447-1000 Email: jacquif@amgen.com

Correspondent Name: Amgen Inc.

**PATENT** 

REEL: 029604 FRAME: 0266

Address Line 1: One Amgen Center Drive

Address Line 2: Patent Operations 28-2-C / BPF

Address Line 4: Thousand Oaks, CALIFORNIA 91320-1799

ATTORNEY DOCKET NUMBER: A-1657-US-NP

NAME OF SUBMITTER: Jacqui Vernon

#### Total Attachments: 39

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PATENT REEL: 029604 FRAME: 0267

#### ASSIGNMENT

Wherea	is, I/we,
	BROWN, James; 4438 Appleglen Court, Moorpark, CA 93021 USA
	CHEN, Jian J.; 5448 Castillo De Rosa, Camarillo, CA 93012 USA
	GORE, Vijay Keshav; 8 Del Rey, Irvine, CA 92612 USA
	HARRIED, Scott; 64 Country Club Drive, Pittsburgh, PA 15241 USA
	HORNE, Daniel, B.; 125 Parkside Drive, Simi Valley, CA 93065 USA
	KALLER, Matthew, R.; 1644 Red Rock Avenue, Ventura, CA 93004 USA
	LIU, Qingyian; 4631 Paseo Girasol, Camarillo, CA 93012 USA
	MONENSCHEIN, Holger; 119 Midleton Way, Jupiter, FL 33458 USA
	NGUYEN, Thomas T.; 468 Calle Veracruz, Newbury Park, CA 91320 USA
	NISHIMURA, Nobuko; 24050 Arminta Street, West Hills, CA 91304 USA
	ZHONG, Wenge; 2921 Venezia Lane, Thousand Oaks, CA 91362 USA

(hereinafter referred to as ASSIGNOR), have made an invention which is the subject of an application for Letters Patent of the United States; and/or is the subject of a provisional application; and/or is the subject of an international application; and/or is the subject of other patent application(s) in other jurisdictions worldwide ("Application") entitled

# TRPM8 ANTAGONISTS AND THEIR USE IN TREATMENTS

which is found in:

US Non-Provisional Application Serial No. 13/529,880 filed June 21, 2012; which claims the benefit of US Provisional Application No. 61/500,835 filed June 24, 2011.

Whereas AMGEN INC., a Delaware corporation having its principal place of business at One Amgen Center Drive, Thousand Oaks, California 91320-1799 wishes to acquire the entire right, title, and interest in all inventions disclosed in such Application;

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto AMGEN INC., its successors and assigns (collectively "ASSIGNEE") ASSIGNOR'S entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for such inventions, or any of them, including divisional, continuation, continuation-in-part, substitute, reissue, and/or reexamination applications based on the above identified Application, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by ASSIGNEE for its own use and enjoyment to the full

end of the term or terms for which such Letters Patent may be granted, and any extensions thereof, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made.

Further, ASSIGNOR hereby sells, assigns, transfers, and sets over unto ASSIGNEE ASSIGNOR'S entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by ASSIGNOR or at ASSIGNOR'S direction or deposited on ASSIGNOR'S behalf by ASSIGNEE, its affiliates, employees, or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, ASSIGNOR'S unreserved and irrevocable consent and authorization to ASSIGNEE to refer to the deposited microorganism(s) or other biological material(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any foreign Patent Office authority to issue any such Letters Patent which may be granted on the Application to ASSIGNEE as assignee of the entire right, title and interest therein and thereto.

For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

For ASSIGNOR and for ASSIGNOR'S heirs, successors and legal representatives, ASSIGNOR further covenants and agrees with ASSIGNEE that upon request ASSIGNOR and ASSIGNOR'S heirs, successors and legal representatives will: (i) execute continuing, divisional, substitute, reexamination, and/or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to ASSIGNEE any facts known to ASSIGNOR or ASSIGNOR'S heirs, successors and legal representatives relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for ASSIGNEE, may be necessary or desirable to secure the grant of Letters Patent to ASSIGNEE or its nominees, in the United States and in all other countries where ASSIGNEE may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for ASSIGNEE and to vest and confirm in ASSIGNEE or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid at the expense of ASSIGNEE.

n Witness Whereof I have ex	ecuted this assignment on	et on201	
		(Month, Day)	(Year)
BROWN, Jame	es		
(Name of Invent	or)	(Signature of Inver	ntor)
	UNITED STATES OF A	MERICA	
State of California	ì		
County of	<b>Š</b>		
On Notary Public, personally ap			
	who proved to me or	n the basis of satisfactory e	evidence to be
	the person(s) whose instrument and acknothe same in his/her/th his/her/their signatur	name(s) is/are subscribed owledged to me that he/she/heir authorized capacity(iese(s) on the instrument the f of which the person acted	to the withir they executed b), and that by person(s), or
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In Witness Whereof I have exec	Witness Whereof I have executed this assignment on		2012.
		(Month, Day)	(Year)
CHEN, Jian J.			
(Name of Inventor)	)	(Signature of Inver	ntor)
U	NITED STATES OF A	MERICA	
State of California			
County of	SS:		
On Notary Public, personally appea	before me,ared		8
	the person(s) whose no instrument and acknow the same in his/her/their his/her/their signature() the entity upon behalf instrument.  I certify under PENAL	the basis of satisfactory of ame(s) is/are subscribed ame(s) is/are subscribed ame(s) is/are subscribed ame(s) is/are subscribed are authorized capacity(ies s) on the instrument the of which the person acted that the foregoing paragrad official seal	to the within they executed s), and that by person(s), or l, executed the
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In Witness Whereof I have execu	ted this assignment on	Splender	<u>07,</u> 2012.
		(Month, Day	) (Year)
GORE, Vijay Keshav	<i>,</i>	M.	111
(Name of Inventor)	•••••	(Signature of	Inventor)
UN	VITED STATES OF A	MERICA	
State of California  County of	ss:		
On SON MONT 12012 I Notary Public, personally appear	pefore me, <u>VMN MV</u> red	<u> </u>	a
VIAY K. GO	T.		
	who proved to me on the person(s) whose n instrument and acknow the same in his/her/the his/her/their signature(the entity upon behalf dinstrument.	ame(x) is/are subsorted is authorized capac s) on the instrument	ribed to the within e/she/they executed ity(ies), and that by nt the person(s), or
LEANUTER A.LV  Commission # 1862515  Notary Public - California  San Bernardino County  My Comm. Expires Aug 23, 2013	I certify under PENAI the State of California correct.		
	WITNESS my hand an	d official seal.	
	Mul/ Notary	ublic /	<u> </u>
	My com	mission expires	
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In Witness Whereof I have executed this assign	assignment on		2012.
		(Month, Day)	(Year)
HARRIED, Scott			
(Name of Inventor)		(Signature of Inve	ntor)
Acknowledgm	ent of Ind	ividual	
STATE OF PENNSYLVANIA			
COUNTY OF			
On this the day of		hafora e	na
On this, the day of			
person whose name			
acknowledged that			
therein contained.			
In witness whereof, I hereunto set my hand and	l official seal	•	
Notary Public			
Printed Name:			
My Commission Expires:			

Witness Whereof I have executed this assignment on		2012.	
	<b></b>	(Month, Day)	(Year)
HORNE, Dar	niel, B.		
(Name of Inv	entor)	(Signature of Inve	ntor)
	UNITED STATES OF AM	IERICA	
State of California			
County of	<b>&gt;</b> ss:		
On Notary Public, personally	before me, appeared		a
	who proved to me on the person(s) whose national instrument and acknowled the same in his/her/their his/her/their signature(sthe entity upon behalf of instrument.	ame(s) is/are subscribed ledged to me that he/sho r authorized capacity(ie a) on the instrument the af which the person acted	I to the within they executed s), and that by e person(s), or d, executed the
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	-	(Month, Day)	(Year)
KALLER, Matthew,	, R.		
(Name of Inventor		(Signature of Inve	ntor)
U	UNITED STATES O	F AMERICA	
State of California	1		
County of	ss:		
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LIU, Qingyi	an		
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	tness Whereof I have executed this assignment on _		2012.
	,	(Month, Day)	(Year)
MONENSCHEIN, H	lolger		
(Name of Invento	or)	(Signature of Inver	ntor)
	UNITED STATES OF AMI	ERICA	
State of California			
County of	<b>s</b> s:		
On.	before me.		a
Notary Public, personally app	peared		
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	the same in his/her/their his/her/their signature(s) the entity upon behalf of instrument.  I certify under PENALT the State of California the correct.  WITNESS my hand and Notary Purposessing Purpose	authorized capacity(ie, on the instrument the which the person acted by OF PERJURY and at the foregoing paragraphicial seal.	If they executed s), and that by a person(s), o d, executed the er the laws o

In Witness Whereof I have e	xecuted this assignment on		2012.
	•	(Month, Day)	(Year)
NGUYEN, Thon	nas T.		
(Name of Inver	ntor)	(Signature of Inve	ntor)
	UNITED STATES OF AM	IERICA	
State of California			
County of	<b>&gt;</b> ss:		
On	before me,		a
Notary Public, personally a			
	who proved to me on the person(s) whose natinstrument and acknowled the same in his/her/their his/her/their signature(s) the entity upon behalf of instrument.	me(s) is/are subscribed edged to me that he/she r authorized capacity(ie ) on the instrument the f which the person acted	to the within they executed s), and that by person(s), or d, executed the
	the State of California the correct.		
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	My com	mission expires	

In Witness Whereof I hav	e executed this assignment	on	2012.
	·	(Month, Day)	(Year)
NISHIMURA	, Nobuko		
(Name of In	ventor)	(Signature of Inve	ntor)
	UNITED STATES O	FAMERICA	
State of California	ss:		
County of			
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	the person(s) who instrument and ack the same in his/he his/heir signat	on the basis of satisfactory se name(s) is/are subscribed nowledged to me that he/she their authorized capacity(iecure(s) on the instrument the half of which the person actes	I to the within they executed s), and that by e person(s), or
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	-	(Month, Day)	(Year)
ZHONG, We	nge		
(Name of Inve	ntor)	(Signature of Inve	ntor)
	UNITED STATES OF AM	ERICA	
State of California			
County of	<b>&gt;</b> ss:		
On	before me,		
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	who proved to me on the the person(s) whose national instrument and acknowle the same in his/her/their his/her/their signature(s) the entity upon behalf of instrument.  I certify under PENAL	me(s) is/are subscribed edged to me that he/she authorized capacity(ie) on the instrument the which the person acte	to the within /they executed s), and that by e person(s), or d, executed the
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## ASSIGNMENT

Whereas	s, I/we,
E	BROWN, James; 4438 Appleglen Court, Moorpark, CA 93021 USA
(	CHEN, Jian J.; 5448 Castillo De Rosa, Camarillo, CA 93012 USA
	GORE, Vijay Keshav; 8 Del Rey, Irvine, CA 92612 USA
}-	IARRIED, Scott; 64 Country Club Drive, Pittsburgh, PA 15241 USA
ŀ	HORNE, Daniel, B.; 125 Parkside Drive, Simi Valley, CA 93065 USA
k	CALLER, Matthew, R.; 1644 Red Rock Avenue, Ventura, CA 93004 USA
ž	JU, Qingyian; 4631 Paseo Girasol, Camarillo, CA 93012 USA
1	MONENSCHEIN, Holger; 119 Midleton Way, Jupiter, FL 33458 USA
<b>J</b>	NGUYEN, Thomas T.; 468 Calle Veracruz, Newbury Park, CA 91320 USA
N	NISHIMURA, Nobuko; 24050 Arminta Street, West Hills, CA 91304 USA
7	HONG, Wenge; 2921 Venezia Lane, Thousand Oaks, CA 91362 USA

(hereinafter referred to as ASSIGNOR), have made an invention which is the subject of an application for Letters Patent of the United States; and/or is the subject of a provisional application; and/or is the subject of an international application; and/or is the subject of other patent application(s) in other jurisdictions worldwide ("Application") entitled

## TRPM8 ANTAGONISTS AND THEIR USE IN TREATMENTS

which is found in:

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Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto AMGEN INC., its successors and assigns (collectively "ASSIGNEE") ASSIGNOR'S entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for such inventions, or any of them, including divisional, continuation, continuation-in-part, substitute, reissue, and/or reexamination applications based on the above identified Application, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by ASSIGNEE for its own use and enjoyment to the full

1

end of the term or terms for which such Letters Patent may be granted, and any extensions thereof, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made.

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ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any foreign Patent Office authority to issue any such Letters Patent which may be granted on the Application to ASSIGNEE as assignee of the entire right, title and interest therein and thereto.

For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

For ASSIGNOR and for ASSIGNOR'S heirs, successors and legal representatives, ASSIGNOR further covenants and agrees with ASSIGNEE that upon request ASSIGNOR and ASSIGNOR'S heirs, successors and legal representatives will: (i) execute continuing, divisional, substitute, reexamination, and/or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to ASSIGNEE any facts known to ASSIGNOR or ASSIGNOR'S heirs, successors and legal representatives relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for ASSIGNEE, may be necessary or desirable to secure the grant of Letters Patent to ASSIGNEE or its nominees, in the United States and in all other countries where ASSIGNEE may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for ASSIGNEE and to vest and confirm in ASSIGNEE or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid at the expense of ASSIGNEE.

In Witness Whereof I have executed BROWN, James (Name of Inventor)	ted this assignment on	(Signature of Inve	2012. (Year)
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<b>₩</b>	UTED STATES OF A	VIERICA	
State of California  County of Very 4012—1  On Aug, 14, 2012—1  Notary Public, personally appea	ss: perfore me, JAI l	unne Loop	<u>2</u> a
LYNNE HOOPER Commission # 1976059 Notary Public - California Ventura County My Comm. Expires Apr 23, 2016	the person(s) whose no instrument and acknow the same in his/her/the his/her/their signature(	the basis of satisfactory name(s) is/are subscribed viedged to me that he/sim authorized capacity(is) on the instrument the of which the person acte	d to the within e/they executed es), and that by e person(s), or
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In Witness Whereof I have execu	ated this assignment on	S/16 (Month, Day)	2012. (Year)
CHEN, Jian J.		The state of the s	1-00 ×
(Name of Inventor)		(Signature of Inve	mtor)
U)	NITED STATES OF AM	IERICA	
State of California  County of VINVICO  On Hug 14 2012  Notary Public, personally appea	before me, <u>Lynne</u> red ian J. Ch	e Nooper	
LYNNE HOOPER Commission # 1976059 Hotery Public - Californis Ventura County Wy Comm. Expires Apr 23, 2016	who proved to me on the the person(s) whose national instrument and acknowle the same in his/her/their his/her/their signature(s) the entity upon behalf of instrument.  I certify under PENAL the State of California the correct.  WITNESS my handrand	ne basis of satisfactory me(s) is/are subscribed edged to me that he/shor authorized capacity(se) on the instrument the f which the person acted the foregoing paraginal the foregoing paraginal.	I to the within they executed (a), and that by executed the dependent of the laws of the l

In Witness Whereof I have exec	uted this assignment on		2012.
		(Month, Day)	(Year)
GORE, Vijay Kesh	3V		
(Name of Inventor	)	(Signature of Inve	ntor)
U	NITED STATES OF AM	IERICA	
State of California			
County of	ss:		
OnNotary Public, personally appe			a
	who proved to me on the the person(s) whose natinstrument and acknowle the same in his/her/their his/her/their signature(s) the entity upon behalf of instrument.  I certify under PENAL the State of California the correct.  WITNESS my hand and	me(s) is/are subscribed edged to me that he/she rauthorized capacity(ie) on the instrument the f which the person acted TY OF PERJURY undust the foregoing paragr.	to the within /they executed s), and that by e person(s), or I, executed the er the laws of
·	Notary P	ublic	
	My com	nission expires	
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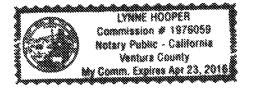
In Witness Whereof I have executed this assign	ment on		2012.
, and the second se	(1	Month, Day)	(Year)
HARRIED, Scott			
(Name of Inventor)	(8	Signature of Inver	ntor)
Acknowledgm	ent of Individu	<b>a</b> l	
STATE OF PENNSYLVANIA			
COUNTY OF			
On this, theday of		, before n	ne
	, the undersigne	d officer, persona	illy appeared
5	known to me (or s	atisfactorily prove	en) to be the
person whose name	subscribed to the	within instrumen	t, and
acknowledged that	(he/she/they) exec	uted the same for	the purposes
therein contained.			
In witness whereof, I hereunto set my hand and	official seal.		
Notary Public			
Printed Name:			
My Commission Expires:			

In Witness Whereof I have execu	ated this assignment on	August 18 (Month, Day)	2012. (Year)
HORNE, Daniel, B. (Name of Inventor)	***************************************	Signature of Inv	
U	NITED STATES OF A	MERICA	
State of California  County of Ventura  On Aug. 17, 2012  Notary Public, personally appea	ss: before me, <u>ynne</u> red		Rulica
Commension # 1978058  Commension # 1978058  Retary Public - California  Retary Public	the person(*) whose is instrument and acknow the same in his/her/their signature the entity upon behalf instrument.  I certify under PENA	the basis of satisfactory name(s) is/are subscribe vledged to me that he/skeir authorized capacity(is) on the instrument the of which the person actually OF PERJURY unthat the foregoing parage	ed to the within the/they executed these, and that by the person(s), or ed, executed the eder the laws of
	WITNESS my hand at Notary My cor	Time H	23 20/6

In Witness Whereof I have executed this assignment on	Averst 17th (Month, Day)	2012. (Year)
KALLER, Matthew, R.		
(Name of Inventor)	(Signature of Invent	or)

## UNITED STATES OF AMERICA

State of California	7			
County of Ventu	(a)			
•	983		*	part of the same o
A = A = A = A	012 before m	<b>.</b>		11 1 //2/-
on <u>Hug. 17. 2</u>	before m	e, <u>Lunn</u>	7 NOO/20	NOYAN 142116
Notary Public, personal	lly appeared		,	
\$	Mother	· · · · · · · · · · · · · · · · · · ·	Vallas	
· ·	11107TMEV	w.	Namer	



who 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 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.

Notary/Public

My commission expires

20/6

In Witness Whereof I have execu	ited this assignment on _	Month, Day)	2012. (Year)
LIU, Qingyian (Name of Inventor)		(Signature of Inv	
U	VITED STATES OF AN	MERICA	
State of California  County of Value  On Qua, 21, 2012  Notary Public, personally appea	ss:  before me, <u>lynne</u> red  ling yian k	L Dooper	
LYNNE HOOPER Commission # 1976059 Matery Public - California Ventura County My Comm. Expires Apr 23, 2816	who proved to me on the person(s) whose mainstrument and acknow the same in his/her/their signature(sthe entity upon behalf coinstrument.  I certify under PENAL the State of California to correct.  WITNESS my hand and Notary I	he basis of satisfactory ame(s) is/are subscribe ledged to me that he/slim authorized capacity(s) on the instrument that which the person act.  TY OF PERJURY under the foregoing paraged of the for	ed to the within ne/they executed les), and that by the person(s), or ed, executed the laws of

In Witness Whereof I have execu	ted this assignment on	08/08 (Month, Day)	2012. (Year)
MONENSCHEIN, Hol (Name of Inventor)	g <b>e</b> r	(Signature of Inve	entor)
UN	HITED STATES OF A	MERICA	
State of California  County of Ventura  On Aug 8, 2012—1  Notary Public, personally appear	red	*	a
Holge	er Moneas	<u>Chein</u>	
LYNNE HOOPER Commission # 1976059 Notary Public - California Value County County Bay Comm. Expires Apr 23, 2018	the person(s) whose instrument and acknothe same in his/her/their his/her/their signature the entity upon behalf instrument.  I certify under PENA	the basis of satisfactory name(s) is/are subscribed wiedged to me that he/ske wir authorized capacity(is e(s) on the instrument the of which the person acted that the foregoing paragination is that the foregoing paraginament that the foregoing paraginament that the foregoing paraginament that the foregoing paraginament is the foregoing paragina	d to the within e/they executed es), and that by the person(s), or ed, executed the der the laws of
	WITNESS my hand a	nd official seal.  1 1 1 2 3 4 5 4 5 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	<u> 211</u>
	Му со. (	mmission expires	20 /6

In Witness Whereof I have execu	ited this assignment on Agust 15 2012.  (Month, Day) (Year)
NGUYEN, Thomas (Name of Inventor)	- And the first transfer of the first transf
U	NITED STATES OF AMERICA
State of California  County of Ventura  On Aug 15 2012  Notary Public, personally appea	before me, Lynne Noopera
	mas T. Nguyen
LYNNE HOOPER Commission # 1976059 Notary Public - California Ventura County My Comm. Expires Apr 23, 2016	who 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 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.  Notary Public
	My commission expires
	<u> April 23 20/6</u>

11

In Witness Whereof I have execu	ited this assignment on August / 549 2012.  (Month, Day) (Year)
NISHIMURA, Nobuk (Name of Inventor)	(Signature of Inventor)
U	NITED STATES OF AMERICA
Notary Públic, personally appea	ss:  perfore me, Lynne Hooper a  red  a  Ni Shimura
LYNNE HOOPER  Commission # 1976059  Notary Public - California  Ventura County  My Comm. Expires Apr 23, 2016	who 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 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.
	North Public  My commission expires  Opril 23 20/6

In Witness Whereof I have execu	ited this assignment on	Month, Day)	72012. (Year)
ZHONG, Wenge			Marketine and the second secon
(Name of Inventor)		(Signature of Inven	tor)
	NITED STATES OF AMEI	RICA	
County of Law Van uro On Aug. 15, 2012 Notary Public, personally appea	before me, <u>Lynne H</u>		
LYNNE HOOPER Commission # 1976059 Notary Public - California Ventura County My Comm. Expires Apr 23, 2016	who proved to me on the the person(s) whose name instrument and acknowled the same in his/her/their at his/her/their signature(s) of the entity upon behalf of winstrument.  I certify under PENALTY the State of California that correct.  WITNESS my hand and of My commissions and the correct with the commissions of the commissions of the person of the p	e(*) is/axx subscribed ged to me that he/she/uthorized capacity(ixx) on the instrument the hich the person acted.  OF PERJURY under the foregoing paragrants.	to the within they executed and that by person(s), or executed the

## ASSIGNMENT

Whereas, I/w	e,
BRO	WN, James; 4438 Appleglen Court, Moorpark, CA 93021 USA
CHE	N, Jian J.; 5448 Castillo De Rosa, Camarillo, CA 93012 USA
GORI	3, Vijay Keshav; 8 Del Rey, Irvine, CA 92612 USA
HARI	RIED, Scott; 64 Country Club Drive, Pittsburgh, PA 15241 USA
HOR	NE, Daniel, B.; 125 Parkside Drive, Simi Valley, CA 93065 USA
KALI	.ER, Matthew, R.; 1644 Red Rock Avenue, Ventura, CA 93004 USA
LIU,	Qingyian; 4631 Paseo Girasol, Camarillo, CA 93012 USA
MON	ENSCHEIN, Holger; 119 Midleton Way, Jupiter, FL 33458 USA
NGU	YEN, Thomas T.; 468 Calle Veracruz, Newbury Park, CA 91320 USA
NISH	IMURA, Nobuko; 24050 Arminta Street, West Hills, CA 91304 USA
ZHO?	NG, Wenge; 2921 Venezia Lane, Thousand Oaks, CA 91362 USA

(hereinaster referred to as ASSIGNOR), have made an invention which is the subject of an application for Letters Patent of the United States; and/or is the subject of a provisional application; and/or is the subject of an international application; and/or is the subject of other patent application(s) in other jurisdictions worldwide ("Application") entitled

# TRPM8 ANTAGONISTS AND THEIR USE IN TREATMENTS

which is found in:

US Non-Provisional Application Serial No. 13/529,880 filed June 21, 2012; which claims the benefit of US Provisional Application No. 61/500,835 filed June 24, 2011.

Whereas AMGEN INC., a Delaware corporation having its principal place of business at One Amgen Center Drive, Thousand Oaks, California 91320-1799 wishes to acquire the entire right, title, and interest in all inventions disclosed in such Application;

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto AMGEN INC., its successors and assigns (collectively "ASSIGNEE") ASSIGNOR'S entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for such inventions, or any of them, including divisional, continuation, continuation-in-part, substitute, reissue, and/or reexamination applications based on the above identified Application, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by ASSIGNEE for its own use and enjoyment to the full

PATENT REEL: 029604 FRAME: 0294

end of the term or terms for which such Letters Patent may be granted, and any extensions thereof, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made.

Further, ASSIGNOR hereby sells, assigns, transfers, and sets over unto ASSIGNEE ASSIGNOR'S entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by ASSIGNOR or at ASSIGNOR'S direction or deposited on ASSIGNOR'S behalf by ASSIGNEE, its affiliates, employees, or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, ASSIGNOR'S unreserved and irrevocable consent and authorization to ASSIGNEE to refer to the deposited microorganism(s) or other biological material(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any foreign Patent Office authority to issue any such Letters Patent which may be granted on the Application to ASSIGNEE as assignee of the entire right, title and interest therein and thereto.

For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

For ASSIGNOR and for ASSIGNOR'S heirs, successors and legal representatives, ASSIGNOR further covenants and agrees with ASSIGNEE that upon request ASSIGNOR and ASSIGNOR'S heirs, successors and legal representatives will: (i) execute continuing, divisional, substitute, reexamination, and/or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to ASSIGNEE any facts known to ASSIGNOR or ASSIGNOR'S heirs, successors and legal representatives relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for ASSIGNEE, may be necessary or desirable to secure the grant of Letters Patent to ASSIGNEE or its nominees, in the United States and in all other countries where ASSIGNEE may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for ASSIGNEE and to vest and confirm in ASSIGNEE or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid at the expense of ASSIGNEE.

in Witness Whereof I have executed this assignment on			2012.
		(Month, Day)	(Year)
BROWN, James			
(Name of Inventor)		(Signature of Inver	ntor)
UN	ITED STATES OF AM	IERICA	
State of California	Ì		
County of	<b>S</b> 88:		
Onb Notary Public, personally appear			a
	the person(s) whose no instrument and acknow the same in his/her/thei his/her/their signature(s	he basis of satisfactory of nme(s) is/are subscribed ledged to me that he/she ir authorized capacity(ies s) on the instrument the of which the person acted	to the within /they executed s), and that by person(s), or
		TY OF PERJURY under the foregoing paragraph of t	
	WITNESS my hand and	l official seal.	
	Notary F	Public	
	My com	mission expíres	
			20

n Witness Whereof I ha	ve executed this assignment on	is assignment on	
		(Month, Day)	(Year)
CHEN, J	ian J.		
(Name of I	nventor)	(Signature of Inver	itor)
	UNITED STATES OF AM	ERICA	
State of California			
County of	ss:		
On	before me,		a
Notary Public, personal	y appeared		
	who proved to me on the person(s) whose natinstrument and acknowle the same in his/her/their his/her/their signature(s) the entity upon behalf of instrument.	me(s) is/are subscribed edged to me that he/she authorized capacity(ies on the instrument the	to the within they executed s), and that by person(s), o
	I certify under PENAL? the State of California th correct.		
	WITNESS my hand and	official seal.	
	Notary Po	ublic	
	My comm	níssion expires	

In Witness Whereof I have exec	cuted this assignment of	on	2012.
	Ţ	(Month, Day)	(Year)
GORE, Vijay Kesh	av		
(Name of Inventor	)	(Signature of Inve	ntor)
U	INITED STATES OF	AMERICA	
State of California	ì		
County of	§85:		
On Notary Public, personally appe			a
	the person(s) whose instrument and acker the same in his/her his/her/their signate the entity upon behinstrument.  I certify under PER	on the basis of satisfactory se name(s) is/are subscribed nowledged to me that he/she/their authorized capacity(ie ure(s) on the instrument the alf of which the person acted NALTY OF PERJURY und nia that the foregoing paragr	to the within /they executed s), and that by e person(s), or d, executed the er the laws of
	Not	ary Public	
		commission expires	
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In Witness Whereof I have executed this assign	ment on Ayust & The 2012.  (Month, Day) (Year)
HARRIED, Scott	full fuero.
(Name of Inventor)	(Signature of Inventor)
Acknowledgm	ent of Individual
STATE OF PENNSYLVANIA	
COUNTY OF Allegheny	
person whose name	, , , , , , before me , the undersigned officer, personally appeared known to me (or satisfactorily proven) to be the subscribed to the within instrument, and (he/she/they) executed the same for the purposes
therein contained.	
In witness whereof, I hereunto set my hand and  Notary Public  Printed Name:	official seal.
My Commission Expires:	
12/12/2013	NOTARIAL SEAL  RACHEL L KOPPER  Notary Public  PITTSBURGH CITY, ALLEGHENY CNTY  My Commission Expires Dec 17, 2013

n Witness Whereof I have executed this assignment on			2012.	
		(Month, Day)	(Year)	
HORNE, Daniel, I	В			
(Name of Inventor	r)	(Signature of Inve	ntor)	
89(	UNITED STATES OF AM	ERICA		
State of California	à			
County of	ss:			
On	before me,		a	
lotary Public, personally appo	eared			
			* 9	
	who proved to me on the the person(s) whose na instrument and acknowle the same in his/her/their his/her/their signature(s) the entity upon behalf of instrument.	me(s) is/are subscribed edged to me that he/she authorized capacity(ie) on the instrument the f which the person acted	I to the with they executes), and that a person(s), d, executed the total tota	
	the person(s) whose natinstrument and acknowled the same in his/her/their his/her/their signature(s) the entity upon behalf of	me(s) is/are subscribed edged to me that he/she authorized capacity(ie) on the instrument the which the person acted TY OF PERJURY und	I to the with  /they execut s), and that e person(s), d, executed t  ler the laws	
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	the person(s) whose natinstrument and acknowle the same in his/her/their his/her/their signature(s) the entity upon behalf of instrument.  I certify under PENAL the State of California the correct.	me(s) is/are subscribed edged to me that he/she authorized capacity(ie) on the instrument the which the person acted TY OF PERJURY undust the foregoing paragrofficial seal.	I to the with  /they execut s), and that e person(s), d, executed t  ler the laws	
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In Witness Whereof I have e	xecuted this assignment o	n	2012.
		(Month, Day)	(Year)
KALLER, Matthe	w, R.		
(Name of Inven	tor)	(Signature of Inver	ntor)
	UNITED STATES OF	AMERICA	
State of California	ì		
County of	<b>s</b> s:		
On Notary Public, personally ap			a
	the person(s) whose instrument and ackrathe same in his/her/ his/her/their signature the entity upon behadinstrument.	on the basis of satisfactory on the basis of satisfactory on the name(s) is/are subscribed nowledged to me that he/she witheir authorized capacity(ie are(s) on the instrument the alf of which the person acted NALTY OF PERJURY unduita that the foregoing paragraph official seal	to the within /they executed s), and that by person(s), or I, executed the er the laws of
	withese my nano	and Official Scal.	
	Nota	ry Public	
	Мус	commission expires	
			20

In Witness Whereof I have executed this assignment on			
		(Month, Day)	(Year)
LIU, Qingyian			
(Name of Invento	r)	(Signature of Inv	entor)
¥	UNITED STATES	OF AMERICA	
State of California	1		
County of	<b>/</b> ss:		
On Notary Public, personally app			a
	the person(s) when instrument and a the same in his/he/their sign the entity upon b instrument.	ne on the basis of satisfactory tose name(s) is/are subscribe cknowledged to me that he/sher/their authorized capacity(inture(s) on the instrument the chalf of which the person active the control of the person active the control of the person active the person act	d to the within e/they executed es), and that by ne person(s), or ed, executed the
	•	ENALTY OF PERJURY unformia that the foregoing parag	
	WITNESS my ha	and and official seal.	
		otary Public	
	M	ly commission expires	
			20

In Witness Whereof I have executed this assignment	s assignment on	
	(Month, Da	y) (Year)
MONENSCHEIN, Holger		
(Name of Inventor)	(Signature of Inventor)	
Acknowledgment of	of Individual	
STATE OF FLORIDA		
COUNTY OF		
The foregoing instrument was acknowledged before		
	(name), who is persona	lly known to me or
who has produced	(type of identification	) as identification.
Notary Public		
Printed Name:		
My Commission Expires:		
Commission #		

Witness Whereof I have executed this assignment on		2012.		
	, and the second	(Month, Day)	(Year)	
NGUYEN, Th	omas T.			
(Name of In-	ventor)	(Signature of Inventor)		
	UNITED STATES O	FAMERICA		
State of California				
County of	<b>&gt;</b> ss:			
On	before me,		a	
Notary Public, personally	appeared			
	the person(s) who instrument and ack the same in his/he his/her/their signal	on the basis of satisfactory se name(s) is/are subscribed mowledged to me that he/she r/their authorized capacity(is ture(s) on the instrument the half of which the person acte	I to the within they executed s), and that by e person(s), or	
	•	NALTY OF PERJURY undmin that the foregoing paragr		
	WITNESS my han	d and official seal.		
	Not	ary Public		
	Му	commission expires		
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In Witness Whereof I have e	Vitness Whereof I have executed this assignment on		2012.
	-	(Month, Day)	(Year)
NISHIMURA, N	obuko		
(Name of Inver	***************************************	(Signature of Inve	ntor)
	UNITED STATES OF A	MERICA	
State of California	<b>)</b> ss:		
County of			
On	before me,		a
Notary Public, personally a			
	the person(s) whose instrument and acknow the same in his/her/th his/her/their signature the entity upon behalf instrument.	the basis of satisfactory name(s) is/are subscribed wledged to me that he/she eir authorized capacity(ie)(s) on the instrument the of which the person acte	I to the within they executed s), and that by a person(s), or d, executed the
	•	that the foregoing paragr	
	WITNESS my hand a	nd official seal.	
	Notary	Public	
	Му сог	mmission expires	
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In Witness Whereof I have e	Witness Whereof I have executed this assignment on		2012.
		(Month, Day)	(Year)
ZHONG, Wen	ge		
(Name of Inven	tor)	(Signature of Inventor)	
	UNITED STATES OF AM	IERICA	
State of California	) acr		
County of	<b>s</b> s:		
On	before me,		a
Notary Public, personally ap			
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	the person(s) whose na instrument and acknowl the same in his/her/their his/her/their signature(s	ume(s) is/are subscribed ledged to me that he/she r authorized capacity(ies) on the instrument the f which the person acted	to the within /they executed s), and that by e person(s), or
	I certify under PENAL the State of California the correct.	TY OF PERJURY und hat the foregoing paragra	
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	Notary P	ablic and the state of the stat	
	My com	mission expires	
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PATENT REEL: 029604 FRAME: 0306

**RECORDED: 01/10/2013**