# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2994260

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
JEONGHOON SUN	02/29/2012
LEI-TING TONY TAM	01/20/2012
HUI-QUAN HAN	01/20/2012
KEITH SOO-NYUNG KWAK	01/20/2012
JOHN LU	01/20/2012
XIAOLAN ZHOU	02/07/2012

### **RECEIVING PARTY DATA**

Name:	AMGEN INC.
Street Address:	ONE AMGEN CENTER
City:	THOUSAND OAKS
State/Country:	CALIFORNIA
Postal Code:	91320-1799

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

Property Type	Number
PCT Number:	US2012070571

### **CORRESPONDENCE DATA**

Fax Number: (650)938-5200

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: (415) 875-2352

sduncan@fenwick.com Email:

**Correspondent Name: KEVIN KABLER** 

Address Line 1: FENWICK & WEST LLP Address Line 2: **801 CALIFORNIA STREET** 

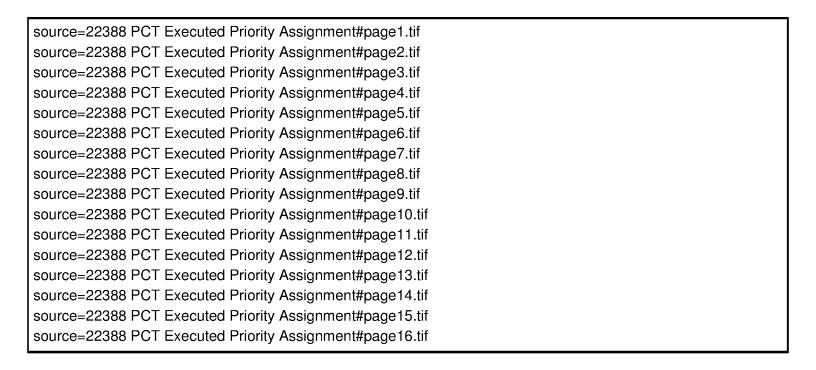
Address Line 4: MOUNTAIN VIEW, CALIFORNIA 94041

ATTORNEY DOCKET NUMBER:	22388/PCT
NAME OF SUBMITTER:	SANDRA K. DUNCAN
SIGNATURE:	/Sandra K. Duncan/
DATE SIGNED:	08/24/2014

**Total Attachments: 16** 

**REEL: 033597 FRAME: 0473** 502947661

PATENT



PATENT REEL: 033597 FRAME: 0474

## **ASSIGNMENT**

Whereas, we, Jeonghoon Sun, 4340 Camino De La Rosa, Thousand Oaks. California 91320 USA

Lei-Ting Tony Tam, 3427 Indian Ridge Circle, Thousand Oaks, California 91362 USA

Hui-Quan Han, 3353 Crossland Street. Thousand Oaks, California 91362 USA

Keith Soo-Nyung Kwak, 1588 Blue Canyon Street, Thousand Oaks, California 91320 USA

Xiaolan Zhou, 3876 Rodene Street, Thousand Oaks, California 91320 USA

John Lu, 4282 Jasmine Avenue, Culver City, California 90232 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

# VARIANT ACTIVIN RECEPTOR POLYPEPTIDES AND USES THEREOF

### which is found in:

U.S. Application Serial No. 13/329,897 filed December 19, 2011; which is a continuation-in-part of U.S. Application Serial No. 13/080,515 filed April 5, 2011; which is a division of U.S. Application Serial No. 12/074,877 filed March 5, 2008, now U.S. Patent No. 7,947,646; which claims the benefit of U.S. Provisional Application No. 61/065,474 filed February 11, 2008; and the benefit of U.S. Provisional Application No. 60/905,459 filed March 6, 2007.

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.

1

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 exec	euted this assignment on	2 - 29 (Month, Day)	20 <u>2</u> (Year)
Jeonghoon Sun (Name of Inventor	)	Signature of Invent	tor)
U	NITED STATES OF A	MERICA	
State of California  County of <del>Ventura</del> See Pieg	. } ss:		
	before me,ARA	JH ~AJ) ERE	**************************************
	Jeonghoon Sun		
ARASH NASSERI COMM. #1943995 Notary Public - California San Diego County My Comin Expires July 14, 2015	the person(s) whose me instrument and acknow the same in his/her/their signature(	the basis of satisfactory exame(s) \displays are subscribed to dedged to me that \text{fig/she/t} are authorized capacity(ies) so the instrument the of which the person(s) act	to the within hey executed, and that by person(s), or
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	WITNESS my hand an	d official seal.	
	Notáry	Fruit June.	·
	My com	nmission expires	
	<del></del>	7/14	2015

n Witness Whereof I have execu	uccu uns assignii	(Month, Day)	20 (Year)
		(Nothin, Day)	(Teal)
Lei-Ting Tony Tam	l		
(Name of Inventor)		(Signature of Inve	entor)
U	NITED STATE	S OF AMERICA	
State of California	<b>)</b>		
County of <u>Ventura</u>	ss:		
On	_ before me,		
Notary Public, personally appea	red		
	Lei-Ting	Tony Tam	
	the person(s) instrument and the same in hishis/her/their si	me on the basis of satisfactory whose name(s) is/are subscribe acknowledged to me that he/sh s/her/their authorized capacity(ignature(s) on the instrument the behalf of which the person(s)	d to the withing they executed es), and that by the person(s), o
		PENALTY OF PERJURY und lifornia that the foregoing parag	
	WITNESS my	hand and official seal.	
	-	Notary Public	······································
		My commission expires	
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	cuted this assignment on		20
		(Month, Day)	(Year)
Hui-Quan Han			
(Name of Inventor	r)	(Signature of Inve	ntor)
τ	JNITED STATES OF A	AMERICA	
State of California	} ss:		
County of Ventura	•		
On	before me,		
Notary Public, personally appe			
, , ,			
	Hui-Quan Har	n	
	the person(s) whose instrument and acknothe same in his/her/th his/her/their signature the entity upon behalt	n the basis of satisfactory name(s) is/are subscribed wledged to me that he/she neir authorized capacity(ie e(s) on the instrument the f of which the person(s) a	to the withing they executed s), and that by person(s), o
	the instrument.	•	cted, execute
	I certify under PENA	ALTY OF PERJURY und a that the foregoing paragra	er the laws o
	I certify under PENA the State of California	ALTY OF PERJURY und a that the foregoing paragr	er the laws o
	I certify under PENA the State of California correct.  WITNESS my hand a	ALTY OF PERJURY und a that the foregoing paragr	er the laws o
	I certify under PENA the State of California correct.  WITNESS my hand a Notary	ALTY OF PERJURY und a that the foregoing paragrant of the foregoing paragra	er the laws o

In Witness Whereof I have exec	cuted this assignment on		20
		(Month, Day)	(Year)
Keith Soo-Nyung Ky	wak		
(Name of Inventor	<del></del>	(Signature of Inver	ntor)
τ	UNITED STATES OF AMI	ERICA	
State of California	•		
County of Ventura	> ss:		
County of <u>ventura</u>	,		
On	before me,		
Notary Public, personally appe	ared		
	Keith Soo-Nyung Kwa	ak	·
	who proved to me on the the person(s) whose nan instrument and acknowle the same in his/her/their his/her/their signature(s) the entity upon behalf of the instrument.	ne(s) is/are subscribed dged to me that he/she/ authorized capacity(ies on the instrument the	to the within they executed they executed they are they are they are they are person(s), o
	I certify under PENALT the State of California the correct.		
	WITNESS my hand and o	official seal.	
	Notary Pu	blic	-
	My comm	ission expires	

In Witness Whereof I have exe	cuted this assignm		20
		(Month, Day)	(Year)
John Lu			
(Name of Inventor	r)	(Signature of Inver	ntor)
τ	UNITED STATES	S OF AMERICA	
State of California  County of <u>Ventura</u>	} ss:		·
On	before me,		
Notary Public, personally appe	ared		
	John	Tu	
	the person(s) v instrument and the same in his his/her/their sig	me on the basis of satisfactory exhose name(s) is/are subscribed acknowledged to me that he/she//her/their authorized capacity(iesgnature(s) on the instrument the behalf of which the person(s) acknowledged.	to the withing they executed s), and that by person(s), o
•	I certify under the State of Cal correct.	PENALTY OF PERJURY under ifornia that the foregoing paragra	er the laws o
	WITNESS my l	nand and official seal.	
		Notary Public	
	1	My commission expires	
		•	20

In Witness Whereof I have exe		(Month, Day)	_ 20 (Year)
Xiaolan Zhou		WHEN THE RESERVE OF THE PARTY O	
(Name of Invento	r)	· (Signature of Invento	r)
1	UNITED STATE	S OF AMERICA	
State of California	<b>)</b>		
County of <u>Ventura</u>	ss:		
On	before me,		***************************************
Notary Public, personally appe	eared		
	Xiaola	n Zhou	······································
	the person(s) instrument and the same in hi his/her/their si	me on the basis of satisfactory evid whose name(s) is/are subscribed to acknowledged to me that he/she/the s/her/their authorized capacity(ies), a gnature(s) on the instrument the per behalf of which the person(s) acted	the withing executed and that by execute that by erson(s), or
		PENALTY OF PERJURY under t lifornia that the foregoing paragraph	
	WITNESS my	hand and official seal.	
	-	Notary Public	
		My commission expires	
		•	20

### ASSIGNMENT

Whereas, we, Jeonghoon Sun. 4340 Camino De La Rosa, Thousand Oaks, California 91320 USA

Lei-Ting Tony Tam, 3427 Indian Ridge Circle, Thousand Oaks, California 91362 USA

Hui-Quan Han, 3353 Crossland Street, Thousand Oaks, California 91362 USA

Keith Soo-Nyung Kwak, 1588 Blue Canyon Street, Thousand Oaks, California 91320 USA

Xiaolan Zhou. 3876 Rodene Street, Thousand Oaks, California 91320 USA

John Lu, 4282 Jasmine Avenue, Culver City, California 90232 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

## VARIANT ACTIVIN RECEPTOR POLYPEPTIDES AND USES THEREOF

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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.

n Witness Whereof I have exc	reace and assigning	(Month, Day)	20 (Year)
		(17.01111, 224))	(1 cur)
Jeonghoon Sun	l		
(Name of Invento	or)	(Signature of Inve	ntor)
	UNITED STATES	S OF AMERICA	
State of California			
County of Ventura	} ss:		
On	before me,		
Notary Public, personally app	eared	•	
	Inamaha		
	Jeongia	oon Sun	
	the person(s) vinstrument and the same in his his/her/their si	me on the basis of satisfactory whose name(s) is/are subscribed acknowledged to me that he/she s/her/their authorized capacity(ie gnature(s) on the instrument the behalf of which the person(s) a	to the within they execute that be person(s), or
	•	PENALTY OF PERJURY und lifornia that the foregoing paragr	
	WITNESS my	hand and official seal.	
		Notary Public	
		My commission expires	
		•	20

In Witness Whereof I have execu	ted this assignment on	$\frac{1-20}{\text{(Month, Day)}} \frac{2012}{\text{(Year)}}$	
		(Wollin, Day) (Teal)	
Lei-Ting Tony Tam		Letal	
(Name of Inventor)		(Signature of Inventor)	
		,	
UN	IITED STATES OF AMER	ICA	
State of California County of <u>Ventura</u>	} ss:	A ) (	
On January 20, 2012	_before mc, <u>Cynthia</u>	.B. Ashley	
Notary Public, personally appear		/	
	Lei-Ting Tony Tam		
	the person(s) whose name(s) instrument and acknowledge the same in his/her/their aut his/her/their signature(s) on	asis of satisfactory evidence to be is/are subscribed to the within the distance of the distan	
	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 offi		
CYNTHIA B. ASHLEY	Notary Public	à B. Askley	
Commission # 1931185 Notary Public - California	My commissi	ion expires	
Ventura County My Comm. Expires Apr 1, 2015	Ž	April 1 2015	
		// "	

•			
In Witness Whereof I have execu	ted this assignment on		
Hui-Quan Han			
(Name of Inventor)	(Signature of Inventor)		
UN	NITED STATES OF AMERICA		
State of California	ss:		
County of Ventura	<b>f</b>		
On <u>January 20, 20/2</u> Notary Public, personally appear			
	Hui-Quan Han		
	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(s) 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.		
CYNTHIA B. ASHLEY Commission # 1931185 Notary Public - Galifornia Ventura County My Comm. Expires Apr 1, 2015	Notary Public  My commission expires  April 1, 2015		

In Witness Whereof I have execut  Keith Soo-Nyung Kwa	(Month, Day) (Year)  Keith S. Kwas			
(Name of Inventor)	(Signature of Inventor)			
UNITED STATES OF AMERICA				
State of California  County of Ventura  On January 20, 2012  Notary Public, personally appears	ss:  before me, Cynthia B. Ashley,			
roung ruono, personany appears	vu.			
	Keith Soo-Nyung Kwak			
	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(s) 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.				
CYNTHIA B. ASHLEY Commission # 1931185 Notary Public - California Ventura County My Comm. Expires Apr 1, 2015	Cynthia B. Ashley Notary Public  My commission expires  April 1, 2015			

In Witness Whereof I have executed this assignment	gnment on $\frac{20 L^2}{\text{(Month, Day)}}$ (Year)			
John Lu  (Nome of Inventor)				
(Name of Inventor)	(Signature of Inventor)			
UNITED STATES OF AMERICA				
State of California  County of Ventura  Secondary 20, 2012 before me Notary Public, personally appeared	Cynthia B. Ashley.			
	John Lu			
the person instrument the same in his/her/thei the entity u the instrum	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/ske/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.  I certify under PENALTY OF PERJURY under the laws of			
the State of correct.	the State of California that the foregoing paragraph is true and			
CYNTHIA B. ASHLEY Commission # 1931185 Notary Public - California Ventura County My Comm. Expires Apr 1, 2015	My commission expires  April 1, 2012			

In Witness Whereof I have execu	ted this assignment on	(Month, Day)	20 / 2. (Year)	
Xiaolan Zhou		Trust. 31.		
(Name of Inventor)		(Signature of Invent	ior)	
UNITED STATES OF AMERICA				
State of California County of Ventura	} ss:			
On February 7, 2012 Notary Public, personally appear	before me, <u>Cyn</u> red	thia B. Ashley		
	Xiaolan Zhou			
	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(s) 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.			
CYNTHIA B. ASHLEY Commission # 1931185 Notary Public - California Ventura County My Comm. Expires Apr 1, 2015	My cor	nthia B. Aok Public nmission expires  April	ley 2015	

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