PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Frank S Walsh	11/14/2006
Margaret M Zaleska	11/21/2006
Lioudmila Tchistiakova	11/15/2006
Riyez Karim	11/15/2006
Xiang-Yang Tan	11/21/2006
Menelas N Pangalos	11/13/2006
William Kelley	11/29/2006
David S Howland	11/13/2006
Seung Poon Kwak	12/07/2006

RECEIVING PARTY DATA

Name:	Wyeth
Street Address:	5 Giralda Farms
City:	Madison
State/Country:	NEW JERSEY
Postal Code:	07940-0874

PROPERTY NUMBERS Total: 3

Property Type	Number
Application Number:	12508618
Application Number:	13030978
Application Number:	13038954

CORRESPONDENCE DATA

Fax Number: (202)408-4400

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

Phone: 6174521600

Email: megan.stembridge@finnegan.com

Correspondent Name: Leslie A. McDonell

PATENT REEL: 025996 FRAME: 0848 OP \$120,00 12508618

501475015

Address Line 1: 901 New York Avenue, N.W.

Address Line 2: Finnegan

Address Line 4: Washington, DISTRICT OF COLUMBIA 20001-4413

ATTORNEY DOCKET NUMBER: 08702.0219

NAME OF SUBMITTER: Amelia Feulner Baur

Total Attachments: 29

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			RECORDATION FORM COVE PATENTS ONLY	Patent and Trademark Offic		U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 08702.0219
	Director of the U.S. Patent ecord the attached original				Mail	Stop Assignment Recordation Services
1.	Name of conveying party(is		.,	2.	Name and	address of receiving party(ies):
	Pangalos; 7) William Kelley	m; 5) Xiar ⁄ legal rep	aleska; 3) Lioudmila ng-Yang Tan; 6) Menelas N. resentative of the Estate of S. Howland; 9) Seung Poon	Name	5 Ĝirak	da Farms on, NJ 07940-0874
Addition	al name(s) of conveying par	ty(ies) atta	ached? ☐ Yes ☒ No	Interna	al Address:	[Text]
3.	Nature of conveyance:			Street	Address:	[Text]
	Assignment		Merger	City:	[Text]	
	Joint Research Agreement		Government Interest Assignment	Additio	onal name(s)	& Address(es) attached?
	Executive Order 9494, Confirmatory License		Other:		☐ Yes	□ No
Execution Date:	1) November 14, 2006; 2006; 4) November 15, 2	2006; 5) N November	ber 21, 2006; 3) November 15, ovember 21, 2006; 6) 29, 2006; 8) November 13,			
4.	Application number(s) or parapplication: [Type appropri			filed tog	jether with a r	new application, the execution date of the
A.	Patent Application Number	(s):		В.	Patent Nur	mber(s):
	12/508,618; filed July 24, 2 13/030,978; filed February 13/038,954; filed March 2,	18, 2011				
		Addit	ional numbers attached? [Yes	M	No
5.	Name and address of party document should be mailed		correspondence concerning	6.	Total numb 3	ber of applications and patents involved:
Name:	Leslie A. McDonell		(617) 452-1600	7.	Total fee (37 CFR 1.21(h) and 3.41): \$120
Internal	Address: FINNEGAN, & DUNNER,		RSON, FARABOW, GARRETT			sed (Please charge deficiency or credit ayment to deposit account 06-0916)
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To the b		elief, the fo	pregoing information is true and	correct a	and any attac	ched copy is a true copy of the original
		elra:	f. Bain			March 18, 2011
			Amelia Feulner Baur			Date
	Total	number of	pages including cover sheet, a	ttachme	nts and docur	ments: 29

Assignment of Invention

In consideration of the payment by ASSIGNEE to ASSIGNOR of good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR:

(4)	Full Name of Inventor: Residence: Citizenship:	Frank S. WALSH 609 Pembroke Road, Bryn Mawr, Pennsylvania 19010 United Kingdom
(2)	Full Name of Inventor: Residence: Citizenship:	Margaret M. ZALESKA 843 Bryn Mawr Avenue, Narberth, Pennsylvania 19072 U.S.A.
(3)	Full Name of Inventor: Residence: Citizenship:	David S. HOWLAND 1025 Countess Drive, Yardley, PA 19067 U.S.A.
(4)	Full Name of Inventor: Residence: Citizenship:	Ligudmila TCHISTIAKOVA 19 Abbot Bridge Drive, Andover, Massachusetts 01810 Canada
(5)	Full Name of Inventor: Residence: Citizenship:	Riyez KARIM 21 Royal Grest Drive, #7, North Andover, Massachusetts 01845 Canada
(6)	Full Name of Inventor: Residence: Citizenship:	Pamela KELLEY (Deceased) 87 Sunnyside Avenue, Reading, Massachusetts 01867 U.S.A.
(7)	Full Name of Inventor: Residence: Citizenship:	Xlang-Yang TAN 811 Gazebo Circle, Reading, Massachusetts 01867 U.S.A.
(8)	Full Name of Inventor: Residence: Citizenship:	Seung Poon KWAK 4 Hampton Road, Ewing, New Jersey 08638 U.S.A.
(9)	Full Name of Inventor: Residence: Citizenship:	Menelas N. PANGALOS 22 Scudder Court, Pennington, New Jersey 08534 United Kingdom

Page 1 of 7 Assignment of Invention
Non-Previsional and Provisional Applications

hereby sells, assigns and transfers to ASSIGNEE:

Wyeth 5 Giralda Farms Madison, N.J. 07940-0874

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the Unifed States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to the invention which is found in:

U.S. Application No. 11/503,062 filed on: August 14, 2006; and U.S. Provisional Application No. 60/709,704 filed on August 19, 2005; both entitled:

ANTAGONIST ANTIBODIES AGAINST GDF-8 AND USES IN TREATMENT OF ALS AND OTHER GDF-8-ASSOCIATED DISORDERS

and invented by ASSIGNOR and the following additional inventors, if any:

Erika L.F. HOLZBAUR-HOWLAND, Karen WALLAGE and Nicholas WEBER

☐ I/we the ASSIGNOR signing below, hereby authorize and request insertion above of
the application number and filing date, when they become known,

[also check if foreign application(s) is(are) also being assigned]

and any legal equivalent thereof in a foreign country,

including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application or any subsequently filed provisional, nonprovisional, continuation, divisional, renewal, or substitute thereof, and as to Letters Patent any reissue or re-examination thereof.

ASSIGNOR 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 authorizes ASSIGNEE to make applications for and to receive Letters patent for said invention in any of said countries in its own name, or in ASSIGNOR's name, at its election.

ASSIGNOR covenants and agrees to execute or procure any further necessary assurance of the title to said invention and any Letters Patent which may issue therefore and to, at any time, upon the request and at the expense of ASSIGNEE deliver any testimony in any interference, litigation or proceeding related thereto and execute all papers that may be necessary or desirable to perfect the proceeding related thereto and execute all papers that may be granted therefore in ASSIGNEE, its title to said invention or any Letters Patent which may be granted therefore in ASSIGNEE, its successors, assigns or other legal representatives, and that to, at any time, upon the request and at the expense of ASSIGNEE execute any continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to Letters Patent and reissue or re-examination thereof, or any other additional applications of Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to ASSIGNEE, and will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further

Page 2 of 7 Assignment of Invention
Non-Provisional and Provisional Applications

compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

ASSIGNOR authorizes and requests the Commissioner of Patents to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications to its ASSIGNEE. Frank S. WALSH ACKNOWLEDGMENT County of Montame day of November, 2006, before me, personally appeared Frank S. Walsh known by me to be the same person described herein and whose name is signed above or on the preceding or attached document, and acknowledged that he executed the same, of his own free will and for the purposes set forth. Sulmer D Queen. BUBINEA D. OWENS, Notary Public Upper Providence Twp., Monigomery Count My Commission Expires April 7, 2007 Notember 21, 2006
Date **ACKNOWLEDGMENT** County of A Margaret M. 2006, before me, personally appeared Margaret M. ZALESKA known by me to be the same person described herein and whose name is signed above or on the preceding or attached document, and acknowledged that she executed the same, of her own free will and for the purposes set forth.

> MARIE ARCARO MY COMMISSION EXPIRES ON JUNE 9, 2009

Page 3 of 7 Assignment of Invention
Non-Provisional and Provisional Applications

David S. HOWLAND	Date
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n the day of DWLAND, known by me to be the same on the preceding or attached document se will and for the purposes set forth.	, 2006, before me, personally appeared David S. person described herein and whose name is signed above , and acknowledged that he executed the same, of his own
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Commonwealth of Massachusetts My Commission Expires March 29,2007

Page 4 of 7 Assignment of Invention Non-Provisional and Provisional Applications

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Page 5 of 7 Assignment of Invention
Non-Provisional and Provisional Applications

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Seung Poon KWAK	Date
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Page 6 of 7 Assignment of Invention
Non-Provisional and Provisional Applications

Menelas N. PANGALOS

11/13/2006 Date

ACKNOWLEDGMENT

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Notary Public

MARIE ARCARO MY COMMISSION EXPIRES ON JUNE 9, 2009

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Page 7 of 7 Assignment of Invention
Non-Provisional and Provisional Applications

Assignment of Invention

In consideration of the payment by ASSIGNEE to ASSIGNOR of good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR:

Full Name of Inventor: Frank S. WALSH (1)609 Pembroke Road, Bryn Mawr, Pennsylvania 19010 Residence: United Kingdom Citizenship: Full Name of Inventor: Margaret M. ZALESKA (2)843 Bryn Mawr Avenue, Narberth, Pennsylvania 19072 Residence: U.S.A. Citizenship: Full Name of Inventor: David S. HOWLAND (3)1025 Countess Drive, Yardley, PA 19067 Residence: Citizenship: U.S.A. Full Name of Inventor: Lioudmila TCHISTIAKOVA (4) 19 Abbot Bridge Drive, Andover, Massachusetts 01810 Residence: Citizenship: Canada Full Name of Inventor: Riyez KARIM (5) 21 Royal Crest Drive, #7, North Andover, Massachusetts 01845 Residence: Citizenship: Canada Full Name of Inventor: Pamela KELLEY (Deceased) (6)87 Sunnyside Avenue, Reading, Massachusetts 01867 Residence: U.S.A. Citizenship: Full Name of Inventor: Xiang-Yang TAN (7) 811 Gazebo Circle, Reading, Massachusetts 01867 Residence: U.S.A. Citizenship: Full Name of Inventor: Seung Poon KWAK (8) 4 Hampton Road, Ewing, New Jersey 08638 Residence: U.S.A. Citizenship: Full Name of Inventor: Menelas N. PANGALOS (9)22 Scudder Court, Pennington, New Jersey 08534 Residence: **United Kingdom** Citizenship:

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[also check if foreign application(s) is(are) also being assigned]

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compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

ASSIGNOR authorizes and reque Patent of the United States for said invent ASSIGNEE.	ests the Commissioner of Patents to issue any and all Letters tion, resulting from any of the aforesaid applications to its
Frank S. WALSH	Date
<u>.</u> <u>A</u>	CKNOWLEDGMENT
State of} ss:	
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On the day of known by me to be the same person desc preceding or attached document, and act and for the purposes set forth.	_, 2006, before me, personally appeared Frank S. Walsh cribed herein and whose name is signed above or on the knowledged that he executed the same, of his own free will
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Margaret M. ZALESKA	Date
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David S. HOWLAND	Date
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and for the purposes set forth.	Notary Public

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Menelas N. PANGALOS	Date
<u>ACKNOWLED</u>	GMENT
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	Notary Public

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ASSIG	SNOR:	
(1)		Frank S. WALSH 609 Pembroke Road, Bryn Mawr, Pennsylvania 19010 United Kingdom
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(7)	Full Name of Inventor: Residence: Citizenship:	Xiang-Yang TAN 811 Gazebo Circle, Reading, Massachusetts 01867 U.S.A.
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(9)	Full Name of Inventor Residence: Citizenship:	: Menelas N. PANGALOS 22 Scudder Court, Pennington, New Jersey 08534 United Kingdom

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compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

	Frank S. WALSI	 Н		Date	e
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State of		} ss:			
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On the known by m	day of	, 20 rson described t, and acknowl	06, before m I herein and ledged that h	e, personally appe whose name is sig e executed the sa	eared Frank S. Walsh gned above or on the me, of his own free will
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Lioudmila TCHISTIAK	Date ACKNOWLEDGMENT
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ACKNOWLEDG	<u>MENT</u>
State of} County of}	
On the day of, 2006, before PANGALOS known by me to be the same person described or on the preceding or attached document, and acknown free will and for the purposes set forth.	e me, personally appeared Menelas N. ribed herein and whose name is signed above ledged that he executed the same, of his own
	Notary Public

NY_MAIN 575367v2

Assignment of Invention

In consideration of the payment by ASSIGNEE to ASSIGNOR of good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR:

sidence:	Frank S. WALSH 609 Pembroke Road, Bryn Mawr, Pennsylvania 19010 United Kingdom
Il Name of Inventor:	Margaret M. ZALESKA
esidence:	843 Bryn Mawr Avenue, Narberth, Pennsylvania 19072
tizenship:	U.S.A.
Il Name of Inventor:	David S. HOWLAND
esidence:	1025 Countess Drive, Yardley, PA 19067
tizenship:	U.S.A.
all Name of Inventor:	Lioudmila TCHISTIAKOVA
esidence:	19 Abbot Bridge Drive, Andover, Massachusetts 01810
tizenship:	Canada
ull Name of Inventor:	Riyez KARIM
esidence:	21 Royal Crest Drive, #7, North Andover, Massachusetts 01845
itizenship:	Canada
ull Name of Inventor: esidence: itizenship:	Pamela KELLEY (Deceased) 87 Sunnyside Avenue, Reading, Massachusetts 01867 U.S.A.
ull Name of Inventor:	Xiang-Yang TAN
esidence:	811 Gazebo Circle, Reading, Massachusetts 01867
itizenship:	U.S.A.
ull Name of Inventor:	Seung Poon KWAK
tesidence:	4 Hampton Road, Ewing, New Jersey 08638
citizenship:	U.S.A.
full Name of Inventor:	Menelas N. PANGALOS
Residence:	22 Scudder Court, Pennington, New Jersey 08534
Citizenship:	United Kingdom
	sidence: izenship: Il Name of Inventor: sidence: izenship: Il Name of Inventor: sidence: tizenship: Ill Name of Inventor: sidence: itizenship: Ill Name of Inventor: sidence: itizenship:

hereby sells, assigns and transfers to ASSIGNEE:

Wyeth 5 Giralda Farms Madison, N.J. 07940-0874

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to the invention which is found in:

U.S. Application No. 11/503,062 filed on: August 14, 2006; and U.S. Provisional Application No. 60/709,704 filed on August 19, 2005; both entitled:

ANTAGONIST ANTIBODIES AGAINST GDF-8 AND USES IN TREATMENT OF ALS AND OTHER GDF-8-ASSOCIATED DISORDERS

and invented by ASSIGNOR and the following additional inventors, if any:

Erika L.F. HOLZBAUR-HOWLAND, Karen WALLACE and Nicholas WEBER

☐ I/we the ASSIGNOR signing below, hereby authorize and request insertion above of the application number and filling date, when they become known,

[also check if foreign application(s) is(are) also being assigned]

and any legal equivalent thereof in a foreign country,

including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application or any subsequently filed provisional, nonprovisional, continuation, divisional, renewal, or substitute thereof, and as to Letters Patent any reissue or re-examination thereof.

ASSIGNOR 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 authorizes ASSIGNEE to make applications for and to receive Letters patent for said invention in any of said countries in its own name, or in ASSIGNOR's name, at its election.

ASSIGNOR covenants and agrees to execute or procure any further necessary assurance of the title to said invention and any Letters Patent which may issue therefore and to, at any time, upon the request and at the expense of ASSIGNEE deliver any testimony in any interference, litigation or proceeding related thereto and execute all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefore in ASSIGNEE, its successors, assigns or other legal representatives, and that to, at any time, upon the request and at the expense of ASSIGNEE execute any continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to Letters Patent and reissue or re-examination thereof, or any other additional applications of Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to ASSIGNEE, and will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further

compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

Patent of the United States for said Inv ASSIGNEE.	vention, resulting from any of the aforesaid applications to its
Frank S. WALSH	Date
	ACKNOWLEDGMENT
State of	, 2006, before me, personally appeared Frank S. Walsh described herein and whose name is signed above or on the lacknowledged that he executed the same, of his own free will
	Notary Public
Margaret M. ZALES	να Date
Malgalet W. D LEE	ACKNOWLEDGMENT
State of	, 2006, before me, personally appeared Margaret M. ame person described herein and whose name is signed above o nent, and acknowledged that she executed the same, of her own rth.
	Notary Public

David S. HOWLAND	Date
	ACKNOWLEDGMENT
State of	, 2006, before me, personally appeared David S ne person described herein and whose name is signed above ent, and acknowledged that he executed the same, of his own
	Notary Public
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Lioudmila TCHISTIAKO	
State of	, 2006, before me, personally appeared, me through satisfactory evidence of identity which was be the person whose name is signed above or on the acknowledged that she executed the same, of her own free with the same is signed above.
	Notary Public

Riyez KARIM	Date
	ACKNOWLEDGMENT
ate of	} ss:
ounty of	}
n theday of roved to me through satisfactor be the person whose name is cknowledged that he executed	, 2006, before me, personally appeared Riyez KARIM y evidence of identity which was signed above or on the preceding or attached document, and the same, of his own free will and for the purposes set forth.
	Notary Public
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William Kelley Heir of the Estate of Pamela KE	Date ACKNOWLEDGMENT
William Kelley Heir of the Estate of Pamela KE	ELLEY
Heir of the Estate of Pamela KE State of County of	ACKNOWLEDGMENT _} ss: _}
Heir of the Estate of Pamela KE State of County of day of William KELLEY, proved to me	ACKNOWLEDGMENT }

Xiang-Yang TAN	Date
	ACKNOWLEDGMENT
State of} ss:	
On the day of proved to me through satisfactory e to be the person whose name is sig acknowledged that he executed the	2006, before me, personally appeared Xiang-Yang TAN, vidence of identity which wasned above or on the preceding or attached document, and same, of his own free will and for the purposes set forth.
	Notary Public
	12/07/06
Seung Boon KWA	Date
	ACKNOWLEDGMENT
County of DEW ZORK On the day of De Or on the preceding or attached defree will and for the purposes set	ne same person described herein and whose name is signed above cument, and acknowledged that he executed the same, of his own

DAVID P. RANKIN
Notary Public, State of New York
No. 02RA5048343
Qualified in New York County
Commission Expires August 21, 2009

Notary Public

Menelas N. PANGALOS	Date
<u>ACKNOWL</u>	EDGMENT
State of} ss: County of}	
On the day of, 2006, b PANGALOS known by me to be the same person dor on the preceding or attached document, and ack free will and for the purposes set forth.	efore me, personally appeared Menelas N. lescribed herein and whose name is signed above nowledged that he executed the same, of his own
	Notary Public

PASIZEINPIT of Invention
Non-Regisional and Provisional Applications
Non-Regisional Applications
Non-Regisional Applications Page 7 of 7