

Form-PTO-1595
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TRANS

06-29-2007



DATION

Atty. Docket: 01997.040600

To the Director, U.S. Patent and T

103421235

original documents or copy thereof.

1. Name of conveying party(ies):

- (1) Frank S. WALSH
(2) Margaret M. ZALESKA
(3) David S. HOWLAND
(4) Lioudmila TCHISTIAKOVA
(5) Riyez KARIM
(6) William KELLY Heir of the Estate of Pamela KELLY (Deceased)
- (7) Xiang-Yang TAN
(8) Seung Poon KWAK
(9) Menelas N. PANGALOS

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Wyeth

Foreign Address: _____

Domestic Address: Five Giralda Farms

City: Madison State NJ ZIP 07940

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: (1) Nov. 14, 2006; (2) and (7) Nov. 21, 2006; (3) and (9) Nov. 13, 2006; (4) and (5) Nov. 15, 2006; (6) Nov. 29, 2006; (8) Dec. 7, 2006

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application Number: 11/503,062

Filing Date: August 14, 2006

B. Title of Invention:

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

Additional numbers attached? ☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Fitzpatrick, Cella, Harper & Scinto

30 Rockefeller Plaza

New York, New York 10112-3800

Telephone No.: (212) 218-2100

Facsimile No.: (212) 218-2200

6. Number of applications and patents involved:

Two

7. Total fee (37 CFR 3.41): . . . \$ 80.00

- ☒ Previously Paid (see Document ID No.: 103415503)
☐ Authorized to be charged to deposit account

8. Deposit account number (for deficiency or excess)

06-1205

(Attach duplicate copy of this page if paying by deposit account):

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and the attached is the original document or is a true copy of the original document.

Joseph P. Pieroni (Reg. No. 53,469)
Name of Person Signing

[Signature]
Signature

June 25, 2007
Date

Total number of pages including cover sheet, attachments, and documents: 30

**PATENT
REEL: 019510 FRAME: 0382**

To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

4- Application number(s) or patent number(s): (Cont'd.)

Provisional Patent Application No. 60/709,704

Filed: August 19, 2005

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

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:

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

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 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 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.

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
Frank S. WALSH

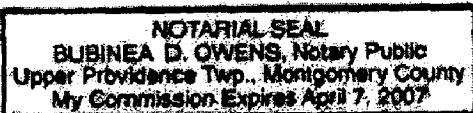
14 NOV. 2006
Date

ACKNOWLEDGMENT

State of Pennsylvania ss:

County of Montgomery

On the 14th 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.



Bubinea D. Owens
Notary Public

Margaret M. Zaleska
Margaret M. ZALESKA

November 21, 2006
Date

ACKNOWLEDGMENT

State of New Jersey ss:

County of Middlesex

On the 21st day of November, 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
Notary Public

MARIE ARCARO
MY COMMISSION EXPIRES
ON JUNE 9, 2009

David S. HOWLAND

Date _____

ACKNOWLEDGMENT

State of _____ }
County of _____ } ss:

On the _____ day of _____, 2006, before me, personally appeared David S. HOWLAND, 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.

Notary Public


Chistiakova
Moudmila TCHISTIAKOVA

11.15.06
Date

ACKNOWLEDGMENT

State of Massachusetts ss:
County of Middlesex }

On the 15 day of November, 2006, before me, personally appeared Lioudmila TOHISTIAKOVA, proved to me through satisfactory evidence of identity which was None to be the person 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.


Notary Public

FLORENCE ANN McCOLGAN
NOTARY PUBLIC

Commonwealth of Massachusetts
My Commission Expires March 28, 2007

R. Karim
Riyez KARIM

Nov-15-2006
Date

ACKNOWLEDGMENT

State of Massachusetts ss:
County of Middlesex

On the 15 day of November, 2006, before me, personally appeared Riyez KARIM, proved to me through satisfactory evidence of identity which was License to be the person 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.

Florence Ann McColgan
Notary Public
FLORENCE ANN McCOLGAN
NOTARY PUBLIC
Commonwealth of Massachusetts
My Commission Expires March 29, 2007

William Kelley
Heir of the Estate of Pamela KELLEY

Date

ACKNOWLEDGMENT

State of }
County of } ss:

On the day of , 2006, before me, personally appeared William KELLEY, proved to me through satisfactory evidence of identity which was to be the person 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.

Notary Public

Date _____

ACKNOWLEDGMENT

State of Nevada ss:
County of Washoe

On the 21 day of November 2006, before me, personally appeared Xiang-Yang TAN, proved to me through satisfactory evidence of identity which was license to be the person 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.

Thomas A. McElroy
Notary Public

FLORENCE ANN McCOLGAN
NOTARY PUBLIC
Commonwealth of Massachusetts
My Commission Expires March 29, 2007

Seung Poon KWAK

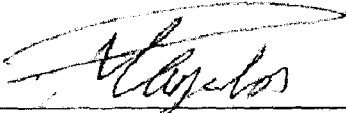
Date _____

ACKNOWLEDGMENT

State of _____)
County of _____) ss.

On the _____ day of _____, 2006, before me, personally appeared Seung Poon KWAK, 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.

Notary Public



Menelas N. PANGALOS

11/13/2006

Date

ACKNOWLEDGMENT

State of New Jersey)
County of Medley) ss:

On the 13 day of November, 2006, before me, personally appeared Menelas N. PANGALOS 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.



Notary Public

MARIE ARCARO
MY COMMISSION EXPIRES
ON JUNE 9, 2009

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:

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

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 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 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.

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

Date

ACKNOWLEDGMENT

State of _____ }
County of _____ } ss:

On the _____ day of _____, 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.

Notary Public

~~~~~  
\_\_\_\_\_  
Margaret M. ZALESKA

\_\_\_\_\_  
Date

ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 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.

\_\_\_\_\_  
Notary Public

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared David S. HOWLAND, 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.

**Notary Public**

Lioudmila TCHISTIAKOVA

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared Lioudmila TCHISTIAKOVA, proved to me through satisfactory evidence of identity which was \_\_\_\_\_ to be the person 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.

**Notary Public**

Riyez KARIM

Date

ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared Riyez KARIM, proved to me through satisfactory evidence of identity which was \_\_\_\_\_ to be the person 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.

\_\_\_\_\_  
Notary Public

William Kelley

William Kelley

Heir of the Estate of Pamela KELLEY

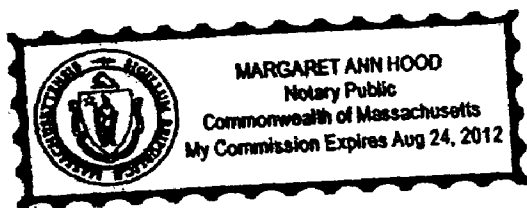
NOV 27, 2006  
Date

ACKNOWLEDGMENT

State of Massachusetts }  
County of Middlesex } ss:

On the 29<sup>th</sup> day of November, 2006, before me, personally appeared William KELLEY, proved to me through satisfactory evidence of identity which was personally known to me to be the person 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.

Margaret Ann Hood  
Notary Public



Date \_\_\_\_\_

### ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_ 2006, before me, personally appeared Xiang-Yang TAN, proved to me through satisfactory evidence of identity which was \_\_\_\_\_ to be the person 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.

Notary Public

Seung Poon KWAK

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared Seung Poon KWAK, 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.

Notary Public

Attorney Docket Nos.: 01997.040600; 040600.PV  
Client Docket Nos. AM101893; AM101893L1  
Patent Application No. 11/503,062  
Provisional Application No. 60/709,704

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared Menelas N. PANGALOS 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.

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:

- 
- (1) Full Name of Inventor: Frank S. WALSH  
Residence: 609 Pembroke Road, Bryn Mawr, Pennsylvania 19010  
Citizenship: United Kingdom
- 
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Citizenship: United Kingdom
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Wyeth  
5 Giralda Farms  
Madison, N.J. 07940-0874

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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 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,

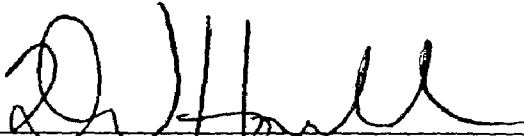
including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application or any subsequently filed provisional, nonprovisional, continuation, divisional, renewal, or substitute thereof, and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

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David S. HOWLAND

11/13/2006

Date

ACKNOWLEDGMENT

State of NEW YORK }  
County of NEW YORK } ss:

On the 13<sup>TH</sup> day of NOVEMBER, 2006, before me, personally appeared David S. HOWLAND, 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.



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

Lioudmila TCHISTIAKOVA

Date

ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared Lioudmila TCHISTIAKOVA, proved to me through satisfactory evidence of identity which was \_\_\_\_\_ to be the person 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.

\_\_\_\_\_  
Notary Public

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared Rieyz KARIM, proved to me through satisfactory evidence of identity which was \_\_\_\_\_ to be the person 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.

Notary Public

William Kelley  
Heir of the Estate of Pamela KELLEY

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared William KELLEY, proved to me through satisfactory evidence of identity which was \_\_\_\_\_ to be the person 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.

Notary Public

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_ 2006, before me, personally appeared Xiang-Yang TAN, proved to me through satisfactory evidence of identity which was \_\_\_\_\_ to be the person 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.

Notary Public

Seung Poon KWAK

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared Seung Poon KWAK, 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.

**Notary Public**

Menelas N. PANGALOS

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared Menelas N. PANGALOS 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.

Notary Public

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:

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



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 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 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.

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

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 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.

Notary Public

**Margaret M. ZALESKA**

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss.

On the \_\_\_\_\_ day of \_\_\_\_\_, 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.

Notary Public

David S. HOWLAND

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared David S. HOWLAND, 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.

Notary Public

Lioudmila TCHISTIAKOVA

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared Lioudmila TCHISTIAKOVA, proved to me through satisfactory evidence of identity which was \_\_\_\_\_ to be the person 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.

Notary Public



Xiang-Yang TAN

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_ 2006, before me, personally appeared Xiang-Yang TAN, proved to me through satisfactory evidence of identity which was \_\_\_\_\_ to be the person 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.

Notary Public

Seung Eon KWAK

12/07/06

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of NEW YORK }  
County of NEW YORK }

On the 7<sup>th</sup> day of DECEMBER, 2006, before me, personally appeared Seung Poon KWAK, 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.

Notary Public

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

Menelas N. PANGALOS

Date \_\_\_\_\_

## ACKNOWLEDGMENT

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me, personally appeared Menelas N. PANGALOS 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.

Notary Public

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