

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Angelika Fretzen	10/20/2010
Steven Witowski	10/19/2010
Alfredo Grossi	10/07/2010
Hong Zhou	10/08/2010
RECEIVING PARTY DATA	
Name:	Ironwood Pharmaceuticals, Inc.
Street Address:	301 Binney Steet
City:	Cambridge
State/Country:	MASSACHUSETTS
Postal Code:	02142
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12851330
CORRESPONDENCE DATA	
Fax Number:	(269)337-7823
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	2693377700
Email:	amckenna@honigman.com
Correspondent Name:	Kelly T. Murphy
Address Line 1:	350 East Michigan Ave., Suite 300
Address Line 4:	Kalamazoo, MICHIGAN 49007
ATTORNEY DOCKET NUMBER:	223355/080US1/301886
NAME OF SUBMITTER:	Kelly T. Murphy
Total Attachments: 10 source=IW080US1Assignment#page1.tif	

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**PATENT
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ASSIGNMENT

I/We,

1. Angelika Fretzen (DE Citizen); 7 Avon Street, Somerville, MA 02143,US;
2. Steven Witowski (US Citizen); 171 Laurel Street, Melrose, MA 02176, US;
3. Alfredo Grossi, (US Citizen); 102 Ten Hills Road, Somerville, MA 02145, US; and
4. Hong Zhao (China Citizen); 74 Craigie Street, Apt. 31, Somerville, MA 02143 US;

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, and do hereby assign, sell and transfer to, Ironwood Pharmaceuticals, Inc., a corporation organized and existing under the laws of the State of Delaware and having an office and a place of business at 301 Binney Street Cambridge, Massachusetts 02142, USA, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

(1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all of my/our inventions and discoveries disclosed in the United States Application for Patent entitled: Formulations Comprising Linaclotide, filed in the United States Patent and Trademark Office on August 5, 2010, under Application Number 12/851,330 including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor;

(2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the election of the ASSIGNEE or its designee, on the aforesaid inventions, discoveries and applications in the United States and in any other country of the world and in and to any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof; and

(3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world, and in and to any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof; and

(4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications including, but not limited to, the following priority application(s):

61/231,725	United States	August 6, 2009
Application No.	Country	Filing Date

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

I/We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

I/We agree, at any time, upon the request of the ASSIGNEE to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I/We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

SIGNATURES ON THE FOLLOWING PAGES

Angelika Fretzen
ANGELIKA FRETZEN

Date: 20 October 2010

State of MASSACHUSETTS
County of MIDDLESEX

On this 20 day of OCTOBER, 2010, before me, the undersigned notary public, personally appeared ANGELIKA FRETZEN, proved to me through satisfactory evidence of identification which were PERSONAL KNOWLEDGE, to be the person whose name is signed on this document and who swore or affirmed to me the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Pete Maguire
Notary Public
My Commission Expires: 1/31/2014



STEVEN WITOWSKI

Date: _____

State of _____
County of _____

On this ____ day of _____, 20__, before me, the undersigned notary public, personally appeared STEVEN WITOWSKI, proved to me through satisfactory evidence of identification which were _____, to be the person whose name is signed on this document and who swore or affirmed to me the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public
My Commission Expires: _____.

Alfredo Grossi
ALFREDO GROSSI

Date: 7 OCTOBER 2010

State of MASSACHUSETTS
County of MIDDLESEX

On this 7 day of OCTOBER, 2010, before me, the undersigned notary public, personally appeared ALFREDO GROSSI, proved to me through satisfactory evidence of identification which were PERSONAL KNOWLEDGE, to be the person whose name is signed on this document and who swore or affirmed to me the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Pete Maguire
Notary Public
My Commission Expires: 11/31/2014

Hong Zhao
HONG ZHAO

Date: 10/08/2010

State of MASSACHUSETTS
County of MIDDLESEX

On this 8 day of OCTOBER, 2010, before me, the undersigned notary public, personally appeared HONG ZHAO, proved to me through satisfactory evidence of identification which were PERSONAL KNOWLEDGE, to be the person whose name is signed on this document and who swore or affirmed to me the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Pete Maguire
Notary Public
My Commission Expires: 11/31/2014

ACKNOWLEDGMENT OF ASSIGNEE

By: Halley Gilbert

Title: Halley E. Gilbert, Esq.
Vice President & General Counsel

Date: 10/20/10

Commonwealth of Massachusetts

County of MIDDLESEX

On this 20 day of OCTOBER, 2010, before me, the undersigned notary public, personally appeared HALEY GILBERT (name of document signer), proved to me through satisfactory evidence of identification which were PERSONAL KNOWLEDGE, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Pete Maguire

Notary Public

My Commission Expires: 1/31/2014.

ACTIVE.8257302.1



ASSIGNMENT

I/We,

1. Angelika Fretzen (DE Citizen); 7 Avon Street, Somerville, MA 02143,US;
2. Steven Witowski (US Citizen); 171 Laurel Street, Melrose, MA 02176, US;
3. Alfredo Grossi, (US Citizen); 102 Ten Hills Road, Somerville, MA 02145, US; and
4. Hong Zhao (China Citizen); 74 Craigie Street, Apt. 31, Somerville, MA 02143 US;

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(2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the election of the ASSIGNEE or its designee, on the aforesaid inventions, discoveries and applications in the United States and in any other country of the world and in and to any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof; and

(3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world, and in and to any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof; and

(4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications including, but not limited to, the following priority application(s):

61/231,725

United States

August 6, 2009

Application No.

Country

Filing Date

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

I/We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

I/We agree, at any time, upon the request of the ASSIGNEE to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I/We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

SIGNATURES ON THE FOLLOWING PAGES

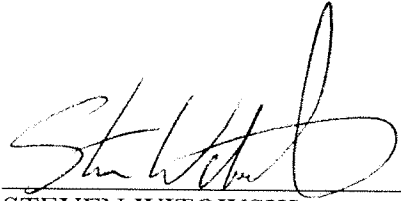
ANGELIKA FRETZEN

Date: _____

State of _____
County of _____

On this 19 day of October, 2010, before me, the undersigned notary public, personally appeared ANGELIKA FRETZEN, proved to me through satisfactory evidence of identification which were _____, to be the person whose name is signed on this document and who swore or affirmed to me the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public
My Commission Expires: _____.

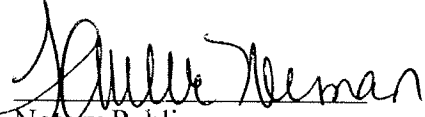


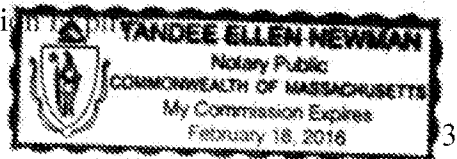
STEVEN WITOWSKI

Date: 19 Oct. 2010

State of Massachusetts
County of Middlesex

On this 19 day of October, 2010, before me, the undersigned notary public, personally appeared STEVEN WITOWSKI, proved to me through satisfactory evidence of identification which were a drivers license, to be the person whose name is signed on this document and who swore or affirmed to me the contents of the document are truthful and accurate to the best of his/her knowledge and belief.


Notary Public
My Commission Expires: _____



ALFREDO GROSSI

Date: _____

State of _____
County of _____

On this ____ day of _____, 20__, before me, the undersigned notary public, personally appeared ALFREDO GROSSI, proved to me through satisfactory evidence of identification which were _____, to be the person whose name is signed on this document and who swore or affirmed to me the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public
My Commission Expires: _____.

HONG ZHAO

Date: _____

State of _____
County of _____

On this ____ day of _____, 20__, before me, the undersigned notary public, personally appeared HONG ZHAO, proved to me through satisfactory evidence of identification which were _____, to be the person whose name is signed on this document and who swore or affirmed to me the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public
My Commission Expires: _____.

ACKNOWLEDGMENT OF ASSIGNEE

By: _____

Title: _____

Date: _____

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 200__, before me, the undersigned notary public, personally appeared _____ (name of document signer), proved to me through satisfactory evidence of identification which were _____, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Notary Public
My Commission Expires: _____.

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