

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2614432

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JOHN BRUCE PATTERSON</td> <td>09/11/2008</td> </tr> <tr> <td>DAVID G. LONERGAN</td> <td>09/22/2008</td> </tr> <tr> <td>GARY A. FLYNN</td> <td>09/12/2008</td> </tr> <tr> <td>QINGPING ZENG</td> <td>09/11/2008</td> </tr> <tr> <td>PETER V. PALLAI</td> <td>09/15/2008</td> </tr> </tbody> </table>		Name	Execution Date	JOHN BRUCE PATTERSON	09/11/2008	DAVID G. LONERGAN	09/22/2008	GARY A. FLYNN	09/12/2008	QINGPING ZENG	09/11/2008	PETER V. PALLAI	09/15/2008
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QINGPING ZENG	09/11/2008												
PETER V. PALLAI	09/15/2008												
RECEIVING PARTY DATA													
Name:	MANKIND CORPORATION												
Street Address:	28903 NORTH AVENUE PAINE												
City:	VALENCIA												
State/Country:	CALIFORNIA												
Postal Code:	91355												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14078792</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14078792								
Property Type	Number												
Application Number:	14078792												
CORRESPONDENCE DATA													
<p>Fax Number: (202)824-3001 Phone: 2028243291 Email: lhemmendinger@bannerwitcoff.com,bharrison@bannerwitcoff.com,BWPTOPAT@bannerwitcoff.com <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p>													
<p>Correspondent Name: LISA M. HEMMENDINGER</p>													
<p>Address Line 1: 1100 13TH STREET, NW</p>													
<p>Address Line 2: SUITE 1200</p>													
<p>Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20005-4051</p>													

CH \$40.00 14078792

ATTORNEY DOCKET NUMBER:	005184.00074
NAME OF SUBMITTER:	LISA M. HEMMENDINGER
Signature:	/Lisa M. Hemmendinger/
Date:	11/14/2013

Total Attachments: 11

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ASSIGNMENT

We, John Bruce PATTERSON, David Gregory LONERGAN, Gary A. FLYNN, Qingping ZENG, and Peter V. PALLAI (“ASSIGNORS”), have invented subject matter (“INVENTION”) disclosed in a patent application entitled “**IRE-1 α Inhibitors**” (“APPLICATION”), which was filed on June 9, 2008 and was given U.S. Serial No. 12/135,571; and

MannKind Corporation, on behalf of itself and its successors and assigns (“ASSIGNEE”), is entitled to and wants to own the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION and all other applications and patents derived therefrom in the United States, its territories, and all foreign countries (“APPLICATION DERIVATIVES”);

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNORS, the ASSIGNORS hereby sell, assign, and transfer to the ASSIGNEE the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION and APPLICATION DERIVATIVES;

ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of the APPLICATION and APPLICATION DERIVATIVES, for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION and APPLICATION DERIVATIVES.

9-11-08

DATE



John Bruce PATTERSON

DATE

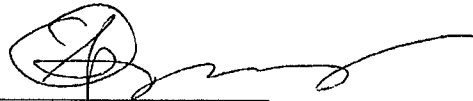
David Gregory LONERGAN

DATE

Gary A. FLYNN

9/11/08

DATE



Qingping ZENG

DATE

Peter V. PALLAI

State of California

County of Los Angeles

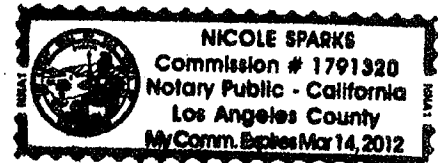
On 9/11/2008 before me, Nicole Sparks, personally
appeared John Patterson and Qingping Zeng

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.

Signature Nicole Sparks (Seal)



ASSIGNMENT

We, John Bruce PATTERSON, David Gregory LONERGAN, Gary A. FLYNN, Qingping ZENG, and Peter V. PALLAI ("ASSIGNORS"), have invented subject matter ("INVENTION") disclosed in a patent application entitled "IRE-1 α Inhibitors" ("APPLICATION"), which was filed on June 9, 2008 and was given U.S. Serial No. 12/135,571; and

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DATE

09-22-08

John Bruce PATTERSON

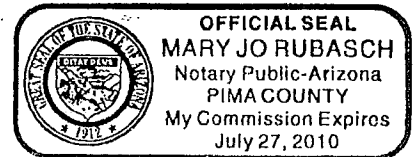
David Lonergan

DATE

DATE

David Gregory LONERGAN

Gary A. FLYNN



Mary Jo Rubasch
Sept 22, 2008

DATE

Qingping ZENG

DATE

Peter V. PALLAI

ASSIGNMENT

We, John Bruce PATTERSON, David Gregory LONERGAN, Gary A. FLYNN, Qingping ZENG, and Peter V. PALLAI (“ASSIGNORS”), have invented subject matter (“INVENTION”) disclosed in a patent application entitled “**TRE-1 α Inhibitors**” (“APPLICATION”), which was filed on June 9, 2008 and was given U.S. Serial No. 12/135,571; and

MannKind Corporation, on behalf of itself and its successors and assigns (“ASSIGNEE”), is entitled to and wants to own the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION and all other applications and patents derived therefrom in the United States, its territories, and all foreign countries (“APPLICATION DERIVATIVES”);

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNORS, the ASSIGNORS hereby sell, assign, and transfer to the ASSIGNEE the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION and APPLICATION DERIVATIVES;

ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of the APPLICATION and APPLICATION DERIVATIVES, for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION and APPLICATION DERIVATIVES.


DATE

John Bruce PATTERSON

DATE

David Gregory LONERGAN

9-12-2008
DATE



Gary A. FLYNN

DATE

Qingping ZENG

DATE

Peter V. PALLAI



Acknowledgment by Individual

State of ARIZONA County of PIMA

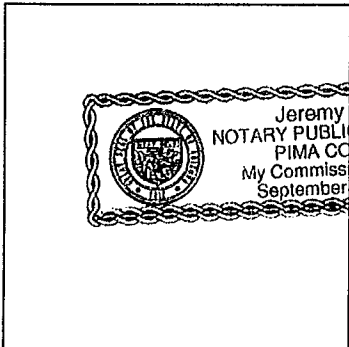
On this 12 day of SEPTEMBER, 2008, before me, JEREMY BETTS
Name of Notary Public

the undersigned Notary Public, personally appeared
GARY A FLYNN
Name of Signer(s)

- Proved to me on the oath of _____
- Personally known to me
- Proved to me on the basis of satisfactory evidence AZ DL D01248769 EX 11/02/2015
(Description of ID)

to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that he/she/they executed it.

WITNESS my hand and official seal.



Notary Seal

[Signature]
(Signature of Notary Public)

My commission expires SEPT. 11, 2010

Optional

Though the information in this section is not required by law, it may prevent fraudulent removal and reattachment of this form to another document and could prove valuable to persons relying on the document.

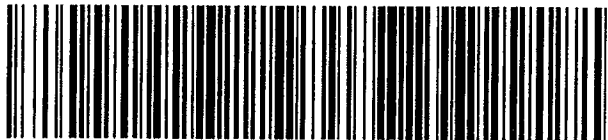
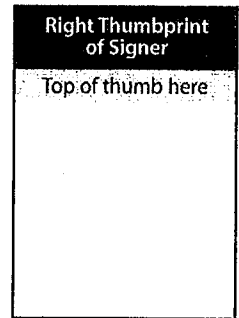
Description of Attached Document

Type or Title of Document
ASSIGNMENT

Document Date
9/12/2008

Number of Pages
2

Signer(s) Other Than Named Above



Scanner Enabled Stores should scan this form
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DSG5350 (9-07 111677)

FO01-00000DSG5350-01

DATE

09-15-08

DATE

Qingping ZENG

Peter V. Pallai

Peter V. PALLAI

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of San Diego

On September 15, 2008 before me, Jamei M. Ellis Notary Public

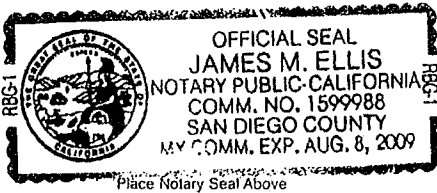
personally appeared Peter V. Pallai

personally known to me

(or proved to me on the basis of satisfactory evidence)

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

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.



WITNESS my hand and official seal.

Jamei M. Ellis
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment

Document Date: N/A Number of Pages: 2

Signer(s) Other Than Named Above: 4 people to sign later

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

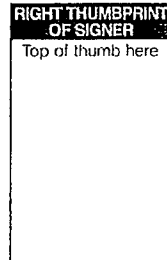
- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing: _____

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing: _____