

FORM PTO-1595 (Rev. 6-93) RECORDATION FORM COVER SHEET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

PATENTS ONLY

To the Commissioner of Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

(1) Paul E. Fleming
 (2) Zhan Shi
 (3) Brendan S. Chen
 (4) Jane F. Schmidt
 (5) John C. Reader
 (6) Neal D. Hone
 (7) Jeffrey P. Ciavarri

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

Name: Millennium Pharmaceuticals, Inc.
 Internal Address: _____
 Street Address: 40 Landsdowne Street
 City: Cambridge State: MA Zip: 02139

Additional name(s) of conveying parties attached? Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Dates: Inventor (3) April 25, 2005; Inventors (2) & (5) April 26, 2005; Inventor (7) April 27, 2005; Inventor (1) April 28, 2005; Inventor (4) May 3, 2005; and Inventor (6) October 31, 2005

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

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 No.(s)
11/032,299

B. Patent No.(s)

Additional Numbers attached? Yes No

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

Name: Karoline K. M. Shair
 Internal Address: Millennium Pharmaceuticals, Inc.
 Street Address: 40 Landsdowne Street
 City: Cambridge State: MA ZIP: 02139

6. Total number of applications and patents involved 1

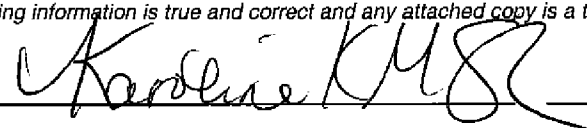
7. Total fee (37 CFR 3.41)\$ 40.00

Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:
501668
 (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 correct and any attached copy is a true copy of the original document.

Karoline K. M. Shair, Reg. No.44,332  November 22, 2005

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: 65

Mail documents to be recorded with required cover sheet information to:
 Mail Stop Assignment Recordation Services, Commissioner for Patents, P.O. Box 1450
 Alexandria, VA 22313-1450

CH \$40.00 501668 11032299

Practitioner's Docket No. MPI03-125P1RNM

PATENT

For: U.S. and Foreign Rights

For: U.S. Application

By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Paul E. Fleming

7 Sunnyside Avenue, Wellesley, Massachusetts 02482

Nationality: United States of America

Zhan Shi

18 Shagbark Road, Concord, Massachusetts 01742

Nationality: United States of America

Shaowu Chen

8 Frye Street, Sudbury, Massachusetts 01776

Nationality: China

Jane F. Schmidt

22 Woobly Road, Bolton, Massachusetts 01740

Nationality: United Kingdom

John C. Reader

5 Coles Lane, Linton, Cambridgeshire, United Kingdom CB1 6JS

Nationality: United Kingdom

Neal D. Hone

Flat 12, 35-36 Regency Square, Brighton, East Sussex, United Kingdom BN1 2FJ

Nationality: United Kingdom

Jeffrey P. Ciavarri

30 Winthrop Avenue, Reading, Massachusetts 01867

Nationality: United States of America

have co-invented a certain invention entitled:

**2-(AMINO-SUBSTITUTED)-4-ARYL PYRIMIDINES AND RELATED COMPOUNDS USEFUL
FOR TREATING INFLAMMATORY DISEASES**

for which they have executed an application for a United States patent, which was filed on January 10, 2005, under U.S. Application No. 11/032,299; and

Practitioner's Docket No. MPI03-125P1RNM

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.

40 Landsdowne Street

Cambridge, Massachusetts 02139

State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the ASSIGNEE to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.


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Practitioner's Docket No. MPI03-125P1RNM

additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issues such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 28th day of April, 2005.



Signature of Inventor Paul E. Fleming



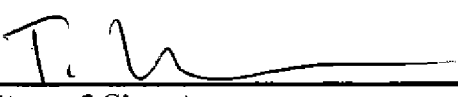
Witness 1 Signature

DOMINIC REYNOLDS

Witness 1 (Typed or Handwritten) Name

304 Allston street Apt #6, Cambridge, MA 02139

Witness 1 Address



Witness 2 Signature

Thomas Lightburn

Witness 2 (Typed or Handwritten) Name

86 Quarry St. Quincy MA 02169

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Zhan Shi

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Shaowu Chen

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jane F. Schmidt

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor John C. Reader

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Neal D. Hone

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jeffrey P. Ciavarri

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

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For: U.S. Application

By: Inventors

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ASSIGNORS:

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7 Sunnyside Avenue, Wellesley, Massachusetts 02482

Nationality: United States of America

Zhan Shi

18 Shagbark Road, Concord, Massachusetts 01742

Nationality: United States of America

Shaowu Chen

8 Frye Street, Sudbury, Massachusetts 01776

Nationality: China

Jane F. Schmidt

22 Woobly Road, Bolton, Massachusetts 01740

Nationality: United Kingdom

John C. Reader

5 Coles Lane, Linton, Cambridgeshire, United Kingdom CB1 6JS

Nationality: United Kingdom

Neal D. Hone

Flat 12, 35-36 Regency Square, Brighton, East Sussex, United Kingdom BN1 2FJ

Nationality: United Kingdom

Jeffrey P. Ciavarrì

30 Winthrop Avenue, Reading, Massachusetts 01867

Nationality: United States of America

have co-invented a certain invention entitled:

**2-(AMINO-SUBSTITUTED)-4-ARYL PYRIMIDINES AND RELATED COMPOUNDS USEFUL
FOR TREATING INFLAMMATORY DISEASES**

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Cambridge, Massachusetts 02139

State of Incorporation: Delaware

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NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

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Practitioner's Docket No. MPI03-125P1RNM

additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issues such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Paul E. Fleming

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 26 day of April, 2005.

Zhan Shi
Signature of Inventor Zhan Shi

BING GUAN
Witness 1 Signature

BING GUAN
Witness 1 (Typed or Handwritten) Name

80 Evelyn Road, Needham, MA 02494
Witness 1 Address

Douglas F. Burdi
Witness 2 Signature

Douglas F. Burdi
Witness 2 (Typed or Handwritten) Name

32 College Ave. Arlington, MA 02474
Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Shaowu Chen

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jane F. Schmidt

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor John C. Reader

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Neal D. Hone

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jeffrey P. Clavarri

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

PATENT

For: U.S. and Foreign Rights

For: U.S. Application

By: Inventors

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WHEREAS,

ASSIGNORS:

Paul E. Fleming

7 Sunnyside Avenue, Wellesley, Massachusetts 02482

Nationality: United States of America

Zhan Shi

18 Shagbark Road, Concord, Massachusetts 01742

Nationality: United States of America

Shaoyu Chen

8 Frye Street, Sudbury, Massachusetts 01776

Nationality: China

Brendan S. Chen

B.O.

April 25, 2005

B.C.

April 25, 2005

Jane F. Schmidt

22 Woobly Road, Bolton, Massachusetts 01740

Nationality: United Kingdom

John C. Reader

5 Coles Lane, Linton, Cambridgeshire, United Kingdom CB1 6JS

Nationality: United Kingdom

Neal D. Hone

Flat 12, 35-36 Regency Square, Brighton, East Sussex, United Kingdom BN1 2FJ

Nationality: United Kingdom

Jeffrey P. Ciavarrri

30 Winthrop Avenue, Reading, Massachusetts 01867

Nationality: United States of America

have co-invented a certain invention entitled:

**2-(AMINO-SUBSTITUTED)-4-ARYL PYRIMIDINES AND RELATED COMPOUNDS USEFUL
FOR TREATING INFLAMMATORY DISEASES**

for which they have executed an application for a United States patent, which was filed on January 10, 2005, under U.S. Application No. 11/032,299; and

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40 Landsdowne Street

Cambridge, Massachusetts 02139

State of Incorporation: Delaware

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IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Paul E. Fleming

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Zhan Shi

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

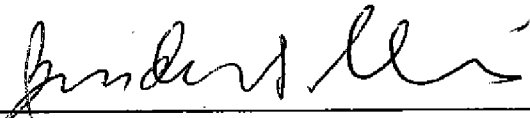
Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 25th day of April, 2005.



Signature of Inventor ~~Shaowu Chen~~ Brendan S. Chen B.C. April 25, 2005



Witness 1 Signature

MELISSA VASBINDER

Witness 1 (Typed or Handwritten) Name

210 W. CANTON ST #4 BOSTON, MA 02116

Witness 1 Address



Witness 2 Signature

SHANNON ZHAO

Witness 2 (Typed or Handwritten) Name

7 David Way, Littleton, MA 01460

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jane F. Schmidt

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor John C. Reader

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Neal D. Hone

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jeffrey P. Ciavarri

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

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AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issues such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Paul E. Fleming

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Zhan Shi

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Shaowu Chen

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

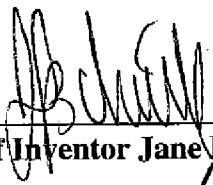
Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 3rd day of May, 2005.



Signature of Inventor Jane F. Schmidt



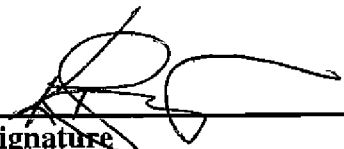
Witness 1 Signature

DOMINIC REYNOLDS

Witness 1 (Typed or Handwritten) Name

304 Allston Street, # 6, CAMBRIDGE, MA, 02139

Witness 1 Address



Witness 2 Signature

KEVIN T. SPROTT

Witness 2 (Typed or Handwritten) Name

67 MONUMENT AVE #2 BOSTON MA 02129

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor John C. Reader

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Neal D. Hone

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jeffrey P. Ciavarri

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

PATENT

For: U.S. and Foreign Rights

For: U.S. Application

By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Paul E. Fleming

7 Sunnyside Avenue, Wellesley, Massachusetts 02482

Nationality: United States of America

Zhan Shi

18 Shagbark Road, Concord, Massachusetts 01742

Nationality: United States of America

Shaowu Chen

8 Frye Street, Sudbury, Massachusetts 01776

Nationality: China

Jane F. Schmidt

22 Woobly Road, Bolton, Massachusetts 01740

Nationality: United Kingdom

John C. Reader

5 Coles Lane, Linton, Cambridgeshire, United Kingdom CB1 6JS

Nationality: United Kingdom

Neal D. Hone

Flat 12, 35-36 Regency Square, Brighton, East Sussex, United Kingdom BN1 2FJ

Nationality: United Kingdom

Jeffrey P. Ciavarri

30 Winthrop Avenue, Reading, Massachusetts 01867

Nationality: United States of America

have co-invented a certain invention entitled:

**2-(AMINO-SUBSTITUTED)-4-ARYL PYRIMIDINES AND RELATED COMPOUNDS USEFUL
FOR TREATING INFLAMMATORY DISEASES**

for which they have executed an application for a United States patent, which was filed on January 10, 2005, under U.S. Application No. 11/032,299; and

Practitioner's Docket No. MPI03-125P1RNM

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.

40 Landsdowne Street

Cambridge, Massachusetts 02139

State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the ASSIGNEE to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the ASSIGNEE, execute and deliver such

Practitioner's Docket No. MPI03-125P1RNM

additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issues such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Paul E. Fleming

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Zhan Shi

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Shaowu Chen

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jane F. Schmidt

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 25th day of
April, 2005.

J Reader

Signature of Inventor John C. Reader

K Colley

Witness 1 Signature

KATHY COLLEY

Witness 1 (Typed or Handwritten) Name

SYCAMORE COTTAGE, THE GREEN, RISBY, SUFFOLK, UK

Witness 1 Address

Linda E Cammish

Witness 2 Signature

LINDA E CAMMISH

Witness 2 (Typed or Handwritten) Name

31 ELIZABETH DRIVE, HARTFORD, HUNTINGDON, CAMBS, PE29 1WA, UK

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Neal D. Hone

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jeffrey P. Ciavarri

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Paul E. Fleming

7 Sunnyside Avenue, Wellesley, Massachusetts 02482

Nationality: United States of America

Zhan Shi

18 Shagbark Road, Concord, Massachusetts 01742

Nationality: United States of America

Shaowu Chen

8 Frye Street, Sudbury, Massachusetts 01776

Nationality: China

Jane F. Schmidt

22 Woobly Road, Bolton, Massachusetts 01740

Nationality: United Kingdom

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Nationality: United Kingdom

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Jeffrey P. Ciavarrri

30 Winthrop Avenue, Reading, Massachusetts 01867

Nationality: United States of America

have co-invented a certain invention entitled:

**2-(AMINO-SUBSTITUTED)-4-ARYL PYRIMIDINES AND RELATED COMPOUNDS USEFUL
FOR TREATING INFLAMMATORY DISEASES**

for which they have executed an application for a United States patent, which was filed on January 10, 2005, under U.S. Application No. 11/032,299; and

Practitioner's Docket No. MPI03-125P1RNM

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.

40 Landsdowne Street

Cambridge, Massachusetts 02139

State of Incorporation: Delaware

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NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

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Practitioner's Docket No. MPI03-125P1RNM

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IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Paul E. Fleming

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Zhan Shi

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Shaowu Chen

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jane F. Schmidt

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor John C. Reader

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 31st day of October, 2005.

N. Hone
Signature of Inventor Neal D. Hone

D. Hone.
Witness 1 Signature

DAWN NATALIE HONE.
Witness 1 (Typed or Handwritten) Name

59, RUSHMORE STREET. LEAMINGTON SPA CV31 1JA
Witness 1 Address

Christine Hone
Witness 2 Signature

CHRISTINE HONE
Witness 2 (Typed or Handwritten) Name

18, Queen's Square, Warwick. CV34 6HP
Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jeffrey P. Ciavarri

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

PATENT

For: U.S. and Foreign Rights

For: U.S. Application

By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Paul E. Fleming

7 Sunnyside Avenue, Wellesley, Massachusetts 02482

Nationality: United States of America

Zhan Shi

18 Shagbark Road, Concord, Massachusetts 01742

Nationality: United States of America

Shaowu Chen

8 Frye Street, Sudbury, Massachusetts 01776

Nationality: China

Jane F. Schmidt

22 Woobly Road, Bolton, Massachusetts 01740

Nationality: United Kingdom

John C. Reader

5 Coles Lane, Linton, Cambridgeshire, United Kingdom CB1 6JS

Nationality: United Kingdom

Neal D. Hone

Flat 12, 35-36 Regency Square, Brighton, East Sussex, United Kingdom BN1 2FJ

Nationality: United Kingdom

Jeffrey P. Ciavarrì

30 Winthrop Avenue, Reading, Massachusetts 01867

Nationality: United States of America

have co-invented a certain invention entitled:

**2-(AMINO-SUBSTITUTED)-4-ARYL PYRIMIDINES AND RELATED COMPOUNDS USEFUL
FOR TREATING INFLAMMATORY DISEASES**

for which they have executed an application for a United States patent, which was filed on January 10, 2005, under U.S. Application No. 11/032,299; and

Practitioner's Docket No. MPI03-125P1RNM

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.

40 Landsdowne Street

Cambridge, Massachusetts 02139

State of Incorporation: Delaware

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AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issues such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Paul E. Fleming

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Zhan Shi

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Shaowu Chen

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Jane F. Schmidt

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor John C. Reader

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2005.

Signature of Inventor Neal D. Hone

Witness 1 Signature

Witness 1 (Typed or Handwritten) Name

Witness 1 Address

Witness 2 Signature

Witness 2 (Typed or Handwritten) Name

Witness 2 Address

Practitioner's Docket No. MPI03-125P1RNM

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 27 day of April, 2005.

Jeff P. Ciavarri
Signature of Inventor Jeffrey P. Ciavarri

Jeremy D. Little
Witness 1 Signature

Jeremy D. Little
Witness 1 (Typed or Handwritten) Name

62 Valley Street Wakefield, MA 01880
Witness 1 Address

Sean J. Harrison
Witness 2 Signature

Sean J. Harrison
Witness 2 (Typed or Handwritten) Name

38 Grove St., Belmont MA 02478
Witness 2 Address