

09-10-2002

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To the Honorable Com Please record the attached original documents or copy thereof.

102216491

Attorney Dkt. No.: 35800/248304(5800-242)

1. Name of conveying party(ies): Maria Alexandra Glucksmann Rosana Kapeller-Libermann Rachel E. Meyers Miyoungh Chun

2. Name and address of receiving party(ies): Millennium Pharmaceuticals, Inc. 75 Sidney Street Cambridge, MA 02139

OFFICE OF PUBLIC RECORDS 2002 SEP -5 AM 11:07 FINANCE SECTION

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: 8/20/02

4. Application No. 10/165,231, filed June 6, 2002 Patent No. If this document is being filed together with a new application, the execution date of the application is: Additional numbers attached? Yes [] No [X]

5. Name and address of party to whom correspondence concerning document should be mailed: ALSTON & BIRD LLP Bank of America Plaza 101 South Tryon Street, Suite 4000 Charlotte, NC 28280-4000

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00 [X] Enclosed [] Authorized to be charged to deposit account

8. Deposit account number: 16-0605

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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. Kathryn L. Coulter 8/28/2002 Name of Person Signing: Kathryn L. Coulter Reg. No. 45,889 Date Total number of pages including cover sheet, attachments, and document: 5

09/09/2002 DBYRME 00000200 10165231 01 FC:581 40.00 DP

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

Millennium Pharmaceuticals, Inc.
75 Sidney Street
Cambridge, MA 02139

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"NOVEL NUCLEIC ACID SEQUENCES ENCODING ADENYLATE KINASES, ALCOHOL DEHYDROGENASES, UBIQUITIN PROTEASES, LIPASES, ADENYLATE CYCLASES AND GTPASE ACTIVATORS"**

as set forth in this United States Patent Application

- executed concurrently herewith
- executed on
- Application No. 10/165,231; filed June 6, 2002
- Application claims priority from Application No. 09/390,038, filed September 3, 1999; Application No. 09/796,089, filed February 28, 2001; Application No. 09/464,039, filed December 15, 1999; 371 PCT/US00/33873, filed December 15, 2000; Application No. 09/972,525, filed October 5, 2001; Application No. 09/408,865, filed September 30, 1999, now U.S. Patent 6,329,171; Application No. 09/963,908, filed September 26, 2001; Application No. 09/434,613, filed November 5, 1999, now U.S. Patent 6,337,187; Application No. 09/461,076, filed December 14, 1999; Application No. 09/802,127, filed February 26, 2001; and U.S. Provisional Application No. 60/185,611, filed February 29, 2000, all applications listed above being hereinafter referred to as the "application(s)";

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only

not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

August 20, 2002
Date

Maria Alexandra Glucksmann
Maria Alexandra Glucksmann

State of Massachusetts
County of Middlesex

I, Nasim G. Memon, a Notary Public for said County and State, do hereby certify that Maria Alexandra Glucksmann personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 20th day of August, 2002.

(Official Seal) Kathy S. Thurn
Notary Public

My commission expires May 1, 2009

NASIM G. MEMON
Notary Public
Commonwealth of Massachusetts
My Commission Expires
May 1, 2009

8-20-02

Rosana K. Liberman

Date

Rosana Kapeller-Libermann

State of Massachusetts

County of Middlesex

I, Nasim G. Memon, a Notary Public for said County and State, do hereby certify that Rosana Kapeller-Libermann personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

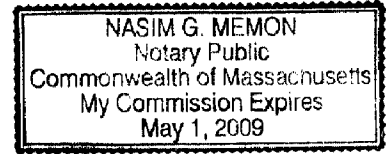
Witness my hand and official seal, this the 20th day of August, 2002.

(Official Seal)

Nasim G. Memon

Notary Public

My commission expires May 1, 2009



8/20/02

Date

Rachel Meyers

Rachel E. Meyers

State of Massachusetts

County of Middlesex

I, Nasim G. Memon, a Notary Public for said County and State, do hereby certify that Rachel E. Meyers personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

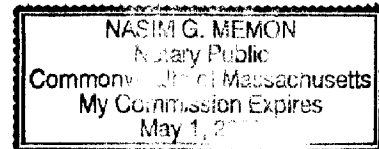
Witness my hand and official seal, this the 20th day of August, 2002.

(Official Seal)

Nasim G. Memon

Notary Public

My commission expires May 1, 2009



8/20/02

Date

Miyoung Chun

Miyoung Chun

State of Massachusetts

County of Middlesex

I, Nasim G. Memon, a Notary Public for said County and State, do hereby certify that Miyoung Chun personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 20th day of August, 2002.

(Official Seal)

Nasim G. Memon

Notary Public

My commission expires May 1, 2009

