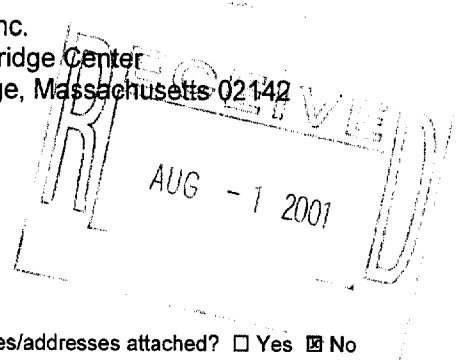
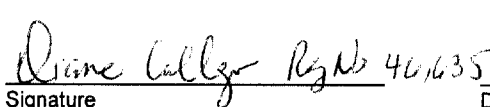


08-08-2001

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Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): HeXi Chang, Ko-Chung Lin, Gnanasambandam Kumaravel, William F. Kiesman, James E. Dowling, Russell C. Petter and Carol L. Ensinger Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Biogen, Inc. 14 Cambridge Center Cambridge, Massachusetts 02142  Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 05/21/01	8-1-01 Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: 09/711,543 B. Patent No(s).: Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: LOUIS MYERS Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>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.</i> Louis Myers Reg. No. 35,965 Name of Person Signing  Signature July 26, 2001 Date	
Total number of pages including coversheet, attachments and document: 9	

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231.

July 26, 2001
Date of Deposit

Nicole Fiore
Signature

Nicole Fiore
Typed Name of Person Signing Certificate

PATENT
REEL: 012040 FRAME: 0831

ASSIGNMENT

For valuable consideration, we, WILLIAM F. KIESMAN of Wayland, MA, CAROL L. ENSINGER of Chelmsford, MA, RUSSELL C. PETTER of Stow, MA, JAMES E. DOWLING of Scituate, MA, GNANASAMBANDAM KUMARAVEL of Westford, MA, HE XI CHANG of Belmont, MA, KO-CHUNG LIN of Lexington, MA, hereby assign to:

Biogen, Inc., a Massachusetts corporation having a place of business at:

14 Cambridge Center
Cambridge, Massachusetts 02142; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled ADENOSINE RECEPTOR ANTAGONISTS AND METHODS OF MAKING AND USING THE SAME, filed November 13, 2000, and assigned U.S. Serial Number 09/711,543, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge,
this 21 day of May, 2001
HEXI CHANG L.S.

Commonwealth

State of MASSACHUSETTS:

: ss.

County of MIDDLESEX :

Before me this 21st day of MAY, 2001, personally
appeared HEXI CHANG known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

Linda J. Shumaker
Notary Public

My Commission Expires:

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge,
this 21 day of May, 20 01
[Signature] L.S.
KO-CHUNG LIN

Commonwealth
State of MASSACHUSETTS

: ss.

County of MIDDLESEX :

Before me this 21st day of MAY, 20 01, personally
appeared KO-CHUNG LIN known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

[Signature]
Notary Public

My Commission Expires:

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge,
this 21 day of May, 2001
Gnanasambandam Kumaravel L.S.
GNANASAMBANDAM KUMARAVEL

~~Commonwealth~~
State of MASSACHUSETTS :

: ss.

County of MIDDLESEX :

Before me this 21st day of MAY, 2001, personally
appeared GNANASAMBANDAM KUMARAVEL known to me to be the person whose name
is subscribed to the foregoing Assignment and acknowledged that he executed the same as his
free act and deed for the purposes therein contained.

Synda J. Shumaker
Notary Public

My Commission Expires: 08/03/01

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge MA,
this 21st day of May, 2001
William F. Kiesman L.S.
WILLIAM F. KIESMAN

~~COMMONWEALTH~~
State of MASSACHUSETTS :

: ss.

County of MIDDLESEX :


Before me this 21st day of MAY, 2001, personally
appeared WILLIAM F. KIESMAN known to me to be the person whose name is subscribed to
the foregoing Assignment and acknowledged that he executed the same as his free act and deed
for the purposes therein contained.

Linda J. Shumaker
Notary Public

My Commission Expires:

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at CAMBRIDGE,
this 21st day of MAY, 20 01

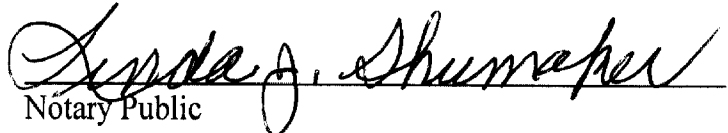
 L.S.
JAMES E. DOWLING

~~COMMONWEALTH~~
State of MASSACHUSETTS:

: ss.

County of MIDDLESEX :

Before me this 21st day of MAY, 20 01, personally
appeared JAMES E. DOWLING known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.


Notary Public

My Commission Expires: 08/03/01

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at CAMBRIDGE, MA,
this 21st day of May, 20 01
Carol L. Ensinger L.S.
CAROL L. ENSINGER

Commonwealth

State of MASSACHUSETTS :

: ss.

County of MIDDLESEX :

Before me this 21st day of MAY, 20 01, personally
appeared CAROL L. ENSINGER known to me to be the person whose name is subscribed to
the foregoing Assignment and acknowledged that he executed the same as his free act and deed
for the purposes therein contained.

Andrea J. Shumaker
Notary Public

My Commission Expires: 08/03/01

[Notary's Seal Here]

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IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge,
this 21st day of May, 20 01

Russell C. Petter L.S.
RUSSELL C. PETTER

Commonwealth
State of MASSACHUSETTS :

: ss.

County of MIDDLESEX :

Before me this 21st day of MAY, 20 01, personally
appeared RUSSELL C. PETTER known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

Dyanne J. Shumaker
Notary Public

My Commission Expires:

08/03/01

[Notary's Seal Here]