

## PATENT ASSIGNMENT

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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>Kenneth G. Carson</td> <td>03/05/2004</td> </tr> <tr> <td>Geraldine C.B. Harriman</td> <td>03/09/2004</td> </tr> <tr> <td>Shomir Ghosh</td> <td>03/31/2006</td> </tr> </tbody> </table>		Name	Execution Date	Kenneth G. Carson	03/05/2004	Geraldine C.B. Harriman	03/09/2004	Shomir Ghosh	03/31/2006		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Millennium Pharmaceuticals, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>40 Landsdowne St.</td> </tr> <tr> <td>City:</td> <td>Cambridge</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02139</td> </tr> </table>		Name:	Millennium Pharmaceuticals, Inc.	Street Address:	40 Landsdowne St.	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139
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PROPERTY NUMBERS Total: 1											
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Application Number:	13151701										
CORRESPONDENCE DATA											
Fax Number:	(202)756-8087										
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Address Line 4:	Washington, DISTRICT OF COLUMBIA 20005-3096										
ATTORNEY DOCKET NUMBER:	079259-0586										
NAME OF SUBMITTER:	Robert H. Underwood										
Total Attachments: 6											

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PATENT  
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Multi-SoleASSIGNMENT

WHEREAS, I, **Shomir Ghosh**, together with co-inventors **Kenneth G. Carson and Geraldine C. B. Harriman**, have invented a certain improvement in **CCR1 Antagonists and Methods of Use Therefor**, described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. **11/204,930**, filed **August 16, 2005**;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [ ], filed [ ], which designates the United States of America [and assigned United States Application No. [ ]];
- which was patented under United States Patent No. [ ].

WHEREAS, **Millennium Pharmaceuticals, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **40 Landsdowne Street, Cambridge, Massachusetts 02139** desires to acquire an interest therein in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with my entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said 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 Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of my 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; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any further applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, I do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal the date set forth below.

Inventor's Signature: Shomir Ghosh  
Shomir Ghosh

State/Commonwealth  
of Massachusetts  
County of Middlesex

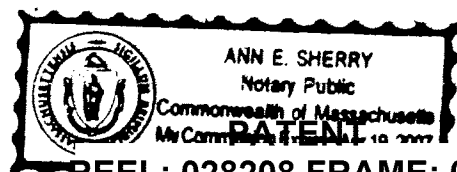
On this 31 day of May, 2006, before me, the undersigned notary public, personally appeared **Shomir Ghosh**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Ann Sherry Notary Public  
ANN E. SHERRY (print name)  
My Commission expires 04/19/2007



**MASSACHUSETTS ALL-PURPOSE ACKNOWLEDGMENT**

Gov. Exec. Ord. #455 (03-13), §5(d)

Commonwealth of Massachusetts  
County of Middlesex } ss.

On this the 31 day of May, 2006, before me,  
Day Month Year

ANN E SHERRY, the undersigned Notary Public,  
Name of Notary Public

personally appeared SHOMIR GHOSH,  
Name(s) of Signer(s)

proved to me through satisfactory evidence of identity, which was/were  
PERSONALLY KNOWN  
Description of Evidence of Identity

to be the person(s) whose name(s) is/are signed on the preceding or attached document, and  
acknowledged to me that he/she/they signed it voluntarily for its stated purpose(s.)

as partner(s) for \_\_\_\_\_  
Name of Partnership  
\_\_\_\_\_, a partnership.

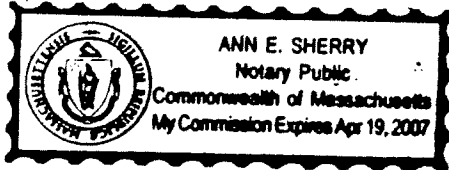
as Associate Director for  
Title of Office  
Millennium Pharmaceuticals Inc., a corporation.  
Name of Corporation

as attorney in fact for \_\_\_\_\_  
Name of Principal Signer  
\_\_\_\_\_, the principal.

as \_\_\_\_\_ for \_\_\_\_\_  
Type of Capacity  
\_\_\_\_\_, a/the \_\_\_\_\_  
Name of Person/Entity Type of Entity

Ann Sherry  
Signature of Notary Public  
ANN E. SHERRY  
Printed Name of Notary

My Commission Expires April 19, 2007



Place Notary Seal and/or Any Stamp Above

**OPTIONAL**

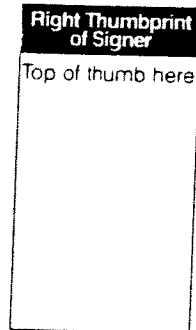
Although the information in this section is not required by law, it may prove valuable to persons  
relying on the document and could prevent fraudulent removal and reattachment of this form to  
another document.

**Description of Attached Document**

Title or Type of Document: Assignment Document

Document Date: 5/31/06 Number of Pages: 2

Signer(s) Other Than Named Above: —



JointASSIGNMENT

WHEREAS, we, **Kenneth G. Carson and Geraldine C. B. Harriman**, have invented a certain improvement in **CCR1 Antagonists and Methods of Use Therefor** described in an application for Letters Patent of the United States,

- the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (*use for 37 CFR §1.53(b) filings only*);
- the specification of which was filed on **November 12, 2003** as United States Application No. **10/706,835**;
- the specification of which is the United States National Stage of International Application No. **[PCT Appl'n No.]**, filed on **[PCT Filing Date]** **[OPTION]** and assigned United States Application No.  **]]** (*use for 35 USC §371 filings only*);
- which was patented under United States Patent No.  on .

WHEREAS, **Millennium Pharmaceuticals, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **40 Landsdowne Street, Cambridge, Massachusetts 02139** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said 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 Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the 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;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving

**PATENT****REEL: 028208 FRAME: 0456**

of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Kenneth G. Carson

**Kenneth G. Carson**

State/Commonwealth

of Massachusetts

County of Middlesex

Then personally appeared before me the above-named **Kenneth G. Carson** and acknowledged that he executed the foregoing instrument as his free act and deed this 5<sup>th</sup> day of March, 2004.

(SEAL)

Suzanna Leet Hawkes

Notary Public

Virginia Leet Hawkes

(print name)

My Commission expires 06/13/08

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Inventor's Signature: Geraldine C. B. Harriman  
**Geraldine C. B. Harriman**

State/Commonwealth  
of Massachusetts  
County of Middlesex

Then personally appeared before me the above-named **Geraldine C. B. Harriman** and acknowledged that she executed the foregoing instrument as her free act and deed this 9th day of March, 2004.

(SEAL)

Virginia Lettswkes Notary Public  
Virginia Lettswkes (print name)  
My Commission expires 06/13/08