

01-15-2002



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Form PTO-1595  
(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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

1. Name of conveying party(ies):

**Tatos N. Akopian**

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

**01-10-02**

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: **August 23, 2001**

2. Name and address of receiving party(ies)

Name: **Genetics Institute, Inc.**

Internal Address: \_\_\_\_\_

Street Address: **87 Cambridge Park Drive**

City: **Cambridge** State: **MA** Zip: **02140**

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)

**60/217,834**

**09/903,876**

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: **Craig J. Arnold, Esq.**

Internal Address: **Amster, Rothstein & Ebenstein**

Street Address: **90 Park Avenue**

(01/15/2002 AAHMED1 00000059 60217834

01 Fee:581

80.00 UP

City: **New York** State: **NY** Zip: **10016**

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ **80.00**

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

**01-1785**

(Attach duplicate copy of this page if paying by deposit account)

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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.*

**Craig J. Arnold, Reg. No. 34,287**

Name of Person Signing

Signature

**October 31, 2001**

Date

Total number of pages including cover sheet, attachments, and documents:

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

**PATENT**  
**REEL: 12450 FRAME: 0747**

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNORS:

(1) Full Name of Inventor: William S. Somers  
Residence: 20 Mead Street, apt. #2, Cambridge, MA 02140  
Citizenship: U.K.

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(2) Full Name of Inventor: Zhang-Bao Xu  
Residence: 40 Fieldston Circle, Tewksbury, MA 01876  
Citizenship: U.S.A.

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(3) Full Name of Inventor: Tatos N. Akopian  
Residence: 58 Johnston Street, West Roxbury, MA 02132  
Citizenship: U.S.A.

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(4) Full Name of Inventor: Chu-Lai Hsiao  
Residence: 55 Sherbourne Point, Waltham, MA 02451  
Citizenship: U.S.A.

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(5) Full Name of Inventor: Rayomond Unwalla  
Residence: 4025 Killington Court, Eagleville, PA 19403  
Citizenship: India

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hereby sell, assign, and transfer to ASSIGNEE:

Genetics Institute, Inc.  
87 Cambridge Park Drive  
Cambridge, Massachusetts 02140

and the successors, assigns, and legal representatives of the ASSIGNEE, the entire right, title, and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, in and to the invention entitled:

**CRYSTAL STRUCTURE OF ESTROGEN RECEPTOR- $\beta$   
COMPLEX AND USES THEREOF**

that was invented by ASSIGNORS, and which is found in U.S. application Serial No. 60/217,834, filed on July 12, 2000, and in U.S. application Serial No. 09/903,876, filed on July 11, 2001, and any legal equivalent thereof in a foreign country, including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application, or any continuation, division, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof.

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 authorize ASSIGNEE to make applications for, and to receive, Letters Patent for said invention in any of said countries, in ASSIGNEE's name, or in ASSIGNORS' names, at ASSIGNEE's election.

ASSIGNORS covenant and agree to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of ASSIGNEE, deliver any testimony in any interference, litigation, or proceeding related thereto, and to execute all papers that may

be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of ASSIGNEE, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, and reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to ASSIGNEE, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns, or other legal representatives.

ASSIGNORS authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications, to said Genetics Institute, Inc. as their ASSIGNEE.

WITNESS our hands and seals this 23 day of Aug, 2001.

\_\_\_\_\_  
William S. Somers



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Tatos N. Akopian

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Zhang-Bao Xu

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Chu-Lai Hsiao

\_\_\_\_\_  
Raymond Unwalla



