

02-01-1999



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To the Honorable Commissioner of Patents and Trademarks,

and a copy thereof.

1. Name of conveying party(ies): MSD
Hazel Sive
Benjamin Sun 1-29-99
Additional name(s) of conveying party(ies) Yes No

2. Name and address of receiving party(ies)
Name: **The Whitehead Institute For Biomedical Research**
Internal Address: _____

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: August 6, 1997

Street Address: Nine Cambridge Center
City: Cambridge State: MA ZIP: 02142
Additional name(s) & address 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)
08/893,654 (GI 5279)
Additional numbers attached? Yes No

B. Patent No.(s) _____

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Steve R. Lazar, Reg. No. 32,618
Internal Address: Genetics Institute, Inc
Legal Affairs
Street Address: 87 CambridgePark Drive
City: Cambridge State: MA ZIP: 02140

6. Total number of applications and registrations involved 1
7. Total fee (37 CFR 3.41)..... \$40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit Account Number: **07-1060**
(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
Steven R. Lazar, Reg. No 32,618
Name of Person Signing _____ Signature [Signature] Date January 20, 1999
Total number of pages including cover sheet, attachments, and document 3

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

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PATENT (U.S. PATENT AND TRADEMARK OFFICE) 5279(1595) WF-1

REEL: 9721 FRAME: 0496

ASSIGNMENT

In consideration of good and valuable considerations, the receipt of which is hereby acknowledged, we, the undersigned,

Hazel SIVE
Benjamin SUN

residing at:

6 Sun Hill Lane, Newton, Massachusetts U.S.A. 02158
7771 Rockburn, Ellicott City, Maryland U.S.A. 21043

, respectively,

hereby sell, assign and transfer to The Whitehead Institute for Biomedical Research, a corporation of the State of Delaware, having a place of business at Nine Cambridge Center, Cambridge, in the County of Middlesex, and the State of Massachusetts, United States of America, its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned and is entitled:

FRAZZLED NUCLEOTIDE SEQUENCES, EXPRESSION PRODUCTS COMPOSITIONS AND USES

GI Case No. 5279) and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for United States Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents

available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings, and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

COVENANT with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

August 6, 1997
Date

Hazel Sive
Hazel SIVE

(Commonwealth of Massachusetts)
County of Middlesex) ss.

Subscribed and sworn to before me by the above-named Hazel SIVE this 6 day of August, 1997

[Signature]
Notary Public
My Commission Expires: Sept. 06, 1997

August 6, 1997
Date

Benjamin Sun
Benjamin SUN

(Commonwealth of Massachusetts)
County of Middlesex) ss.

Subscribed and sworn to before me by the above-named Benjamin SUN this 6 day of August, 1997

[Signature]
Notary Public
My Commission Expires: Sept. 06, 1997