

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Integrated Genetics, Inc. | 08/14/1989 |
| RECEIVING PARTY DATA | |
| Name: | Genzyme Corporation |
| Street Address: | 75 Kneeland Street |
| City: | Boston |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02111 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Patent Number: | 6727405 |
| CORRESPONDENCE DATA | |
| Fax Number: | (617)646-8646 |
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| Address Line 2: | Wolf Greenfield |
| Address Line 4: | Boston, MASSACHUSETTS 02210 |
| ATTORNEY DOCKET NUMBER: | G0744.70042US08 |
| NAME OF SUBMITTER: | Erik J. Spek |
| Total Attachments: 5 source=G074470042US03-CASI-GENZYME-EJS#page1.tif source=G074470042US03-CASI-GENZYME-EJS#page2.tif source=G074470042US03-CASI-GENZYME-EJS#page3.tif source=G074470042US03-CASI-GENZYME-EJS#page4.tif source=G074470042US03-CASI-GENZYME-EJS#page5.tif | |

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Assignment

WHEREAS, INTEGRATED GENETICS, INC. a Delaware Corporation, having a place of business at One Mountain Road, Framingham, MA 01701 (hereinafter "Assignor") is part owner of the entire right, title and interest in the inventions and improvements which are subject of United States Patent Application Serial No. 849,815, filed April 9, 1986, in the name(s) of Katherine Gordon and Suzanne Groet entitled "Transgenic Animals Secreting Proteins Into Milk".

WHEREAS, GENZYME CORPORATION, a Delaware Corporation having a place of business at 75 Kneeland Street, Boston, MA 02111 (hereinafter "Assignee") acquired Assignor in a merger effective August 14, 1989 as evidenced by Exhibit A attached hereto and made a part hereof.

NOW, THEREFORE, In consideration of One Dollar and other good and valuable considerations, the receipt of which is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does hereby sell, assign and transfer Assignor's entire right, title and interest to the above identified United States Patent application, the inventions and improvements throughout the world including any foreign patents granted or pending for any of the inventions or improvements, and the right to claim priority based on the filing date of said United States Patent 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; including continuations, divisional, continuation-in-part, all reissues and extensions thereof, all said rights to be held and enjoyed by the Assignee for its own use and for the use of its successors, assigns or other legal representatives, to the full end of the term for which Patents may be or have been granted, extended or reissued, as fully and entirely as the same

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would have been held and enjoyed by the Assignor if this assignment and sale had not been made; together with all claims for damages by reason of past infringement of the Patents, with the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives.

IN WITNESS WHEREOF, said INTEGRATED GENETICS, INC., has caused this Assignment to be signed by its duly authorized officer effective 14th day of August, 1989.

INTEGRATED GENETICS, INC.

By: Mark A. Hofer

Mark A. Hofer
Assistant Secretary

On this 26 day of February, 1990, before me personally appeared Mark A. Hofer, known to me and acknowledged to me that on August 14, 1989 he was the Assistant Secretary of INTEGRATED GENETICS, INC. and further acknowledged that such corporation acting through its Board of Directors authorized the above Assignment to be executed on behalf of the corporation effective as of August 14, 1989 pursuant to a merger of INTEGRATED GENETICS, INC. into GENZYME CORPORATION on that date as further evidenced by the attached exhibit A, Certificate of Merger.

Linda C. Denton
Notary Public

My Commission Expires: 9/23/94

Attachment: Exhibit A (3 pages)

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PAGE 1

State of Delaware



23861

DOCUMENTARY
SURCHARGE
PAID \$3.00

Office of Secretary of State

I, MICHAEL HARKINS, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER OF "INTEGRATED GENETICS, INC." MERGING WITH AND INTO "GENZYME CORPORATION" UNDER THE NAME OF "GENZYME CORPORATION" AS RECEIVED AND FILED IN THIS OFFICE THE FOURTEENTH DAY OF AUGUST, A.D. 1989, AT 11:45 O'CLOCK A.M.

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Michael Harkins, Secretary of State

AUTHENTICATION: 2382438.

DATE: 88/14/1989

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AUG 14 1989

CERTIFICATE OF MERGER
OF
INTEGRATED GENETICS, INC.
AND

Michael H. H.
SECRETARY OF STATE

GENZYME CORPORATION

It is hereby certified that:

1. The name and state of incorporation of each constituent corporation participating in the merger herein certified is:

(i) Integrated Genetics, Inc. ("Integrated Genetics"), which is incorporated under the laws of the State of Delaware; and

(ii) Genzyme Corporation ("Genzyme"), which is incorporated under the laws of the State of Delaware.

2. An Agreement and Plan of Merger dated as of May 12, 1989 (the "Merger Agreement") has been approved, adopted, certified, executed and acknowledged by each of the aforesaid constituent corporations in accordance with the provisions of Section 251 of the General Corporation Law of the State of Delaware.

3. The name of the surviving corporation in the merger herein certified is Genzyme Corporation, which will continue its existence as said surviving corporation under its present name. The Restated Certificate of Incorporation of Genzyme shall be the certificate of incorporation of the surviving corporation.

4. The executed Merger Agreement between the constituent corporations is on file at the principal place of business of the surviving corporation, the address of which is as follows:

Genzyme Corporation
75 Kneeland Street
Boston, Massachusetts 02111

5. A copy of the Merger Agreement will be furnished by the surviving corporation, on request, and without cost, to any stockholder of either of the constituent corporations.

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6. This Certificate of Merger shall become effective at 4:30 p.m. E.D.S.T. on August 14, 1989.

IN WITNESS WHEREOF, Integrated Genetics and Genzyme have caused this Certificate of Merger to be executed by their respective duly authorized officers as of this 14th day of August, 1989.

INTEGRATED GENETICS, INC.

By: Robert J. Carpenter
President

Attest:

[Signature]
Secretary

GENZYME CORPORATION

By: A. Termer
President

Attest:

[Signature]
SecretaryRECORDED
PATENT AND TRADEMARK
OFFICE

MAR 13 1990

RECEIVED FOR RECORD

AUG 24 1989

EVELYN T. ALEMAR, Recorder

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