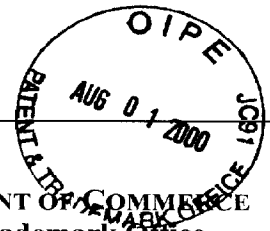


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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

BOX ASSIGNMENTS
Case Docket No. PF505

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

8-1-00

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

<p>1. Name of conveying party(ies): Michael J. Betenbaugh</p> <p>Additional name(s) of conveying party(ies) attached? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>3. Nature of conveyance</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>June 29, 2000</u></p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: Johns Hopkins University Street Address: 708 N. Wyman Park Center 3400 N. Charles Street City: Baltimore, Maryland 21218</p> <p>Additional name(s) of conveying party(ies) attached? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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4. Title **Human Glycosylation Enzymes**

5. Application number (s) or patent numbers (s) A. Patent Application No. 09/516,143

If this document is being filed together with a new application, B. Patent No.
the execution date of the application is Additional numbers attached?

Yes No

6. Name and address of party to whom correspondence concerning documents should be mailed:

Human Genome Sciences, Inc.
9410 Key West Avenue
Rockville, Maryland 20850
Telephone: 301-309-8504 Facsimile: 301-309-8439

7. Total of applications and patents involved 1

8. Total Fee (37 CFR 3.41) \$40.00

Enclosed (By check in total of filing fee and Assignment Recordation Fee)
 Authorized to be charged to Deposit Account

9. Deposit Account No. **08-3425**

10. If any additional fees due in connection with the recordation of this Assignment, please charge the same to
Deposit No. **08-3425**

11. Statement and Signature
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.

08/02/2000 EHAMOND 00000129 083425 09516143

03 FC:581 40.00 CH

Jonathan L. Klein *Jonathan Klein* August 1, 2000
Name of Person Signing Signature Date
41,119

Registration No.

Total number of pages including cover sheet, attachment, and documents: 2

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Michael J. BETENBAUGH, hereby sell(s), assign(s) and transfer(s) to **THE JOHNS HOPKINS UNIVERSITY** ("Assignee") having a place of business at 708 N. Wyman Park Center, 3400 N. Charles Street, Baltimore, MD 21218, its successors, assigns and legal representatives, his/her entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

Human Glycosylation Enzymes

for which application for United States Letters Patent was filed on March 1, 2000, and assigned U.S. Application Serial No. 09/516,143 and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or 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 expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Michele M. Wales (Reg. No. 43,975), Jonathan L. Klein (Reg. No. 41,119), and Joseph J. Kenny (Reg. No. 43,710) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: Michael J. Betenbaugh Date: 6/29/00
Michael J. Betenbaugh

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Timothy A. Coleman, hereby sell(s), assign(s) and transfer(s) to **Human Genome Sciences, Inc.** ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

Human Glycosylation Enzymes

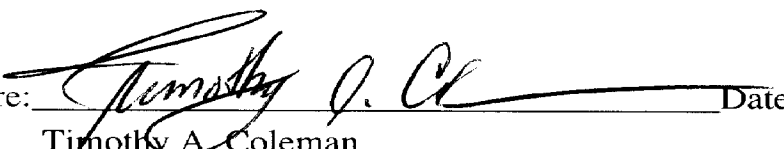
for which application for United States Letters Patent was filed on March 1, 2000, and assigned U.S. Application Serial No. 09/516,143 and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or 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 expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to James H. Davis (Reg. No. 40,582), Kenley K. Hoover (Reg. No. 40,302), Michele M. Wales (Reg. No. 43,975), Jonathan L. Klein (Reg. No. 41,119), and Joseph J. Kenny (Reg. No. 43,710) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:  Date: 5/25/02
Timothy A. Coleman