

FORM PTO-1595

(Rev. 6-93)

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

OMB No. 0651-0011 (exp. 4/94)

PATENTS ONLY

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

1. Name of conveying party(ies):

Christopher Beecher

2. Name and address of receiving party(ies)

Name: Paradigm Genetics, Inc.

Internal Address: _____

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

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name

Execution Date: 10/1/03

Street Address: 108 Alexander DriveP.O. Box 14528City: Research Triangle Park State: NC Zip Code: 27709Additional 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)

10/300,543; 10/300,360

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Deborah H. SpencerInternal Address: Paradigm Genetics, Inc.Patent and Trademark Dept.Street Address: 108 Alexander Drive, P.O. Box 14528City: RTP State: NC ZIP: 27709

6. Total number of applications and patents involved: 2

7. Total fee (37 CFR 3.41)

\$ 40☐ Enclosed☒ Authorized to be charged to deposit account and any other additional fees required.

8. Deposit account number:

50-0885

(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.*Deborah H. Spencer

Name of Person Signing

Reg. No. 50,468

Signature

Date

Total number of pages including cover sheet, attachments, and document: 5

CH \$80.00 500885 10300543

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PATENT
REEL: 014020 FRAME: 0743

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ASSIGNMENT

For good and valuable consideration paid to us,

- 1) Norman Glassbrook of 104 Palomar Point, Chapel Hill, North Carolina 27516
- 2) Stephanie Winfield of 3811 Sue Lane, Raleigh, North Carolina 27604
- 3) Christopher Beecher of 672 Edwards Ridge Rd, Chapel Hill, North Carolina 27514
- 4) Yasmin Ranasinghe of 31 Sheffield Place, Southington, CT 06489
- 5) David Broadwell of 128 White Cap Lane, Garner, North Carolina 27529
- 6) Ioana Popa-Burke of 5314 Middleton Road, Durham, North Carolina 27713
- 7) Gordon James Nye of 310 Misty Grove Circle, Morrisville, North Carolina 27560

by PARADIGM GENETICS, INC., a corporation organized under the laws of the State of Delaware, having its principal office at 108 Alexander Drive, Research Triangle Park, North Carolina 27709 (hereinafter "PARADIGM GENETICS"), we each do hereby sell, assign and set over unto said PARADIGM GENETICS each of our entire right, title and interest in all countries of the world in and to any and all of all inventions and discoveries in:

(1) Methods and Systems For Analyzing Complex Biological Systems as described and/or claimed in our application for United States Letters Patent, and subsequently¹ officially identified as:

Serial Number 10/300,543 filed on November 20, 2002

and in and to any and all non-provisionals, continuations, continuations-in-part (CIP), divisions, international or foreign patent applications claiming priority thereof, and as subsequently¹ officially identified below:

Serial Number _____ filed on _____,

Serial Number _____ filed on _____,

Serial Number _____ filed on _____,

Serial Number _____ filed on _____;

¹ We hereby authorize PARADIGM GENETICS to insert in this instrument the serial number and the filing date of said application(s) when officially notified thereof.

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(2) Methods and Systems For Analyzing Complex Biological Systems as described and/or claimed in our application for United States Letters Patent, and subsequently² officially identified as:

Serial Number 10/300,360 filed on November 20, 2002

and in and to any and all non-provisionals, continuations, continuations-in-part (CIP), divisions, international or foreign patent applications claiming priority thereof, and as subsequently² officially identified below:

Serial Number _____ filed on _____,

Serial Number _____ filed on _____,

Serial Number _____ filed on _____,

Serial Number _____ filed on _____;

(3) Methods and Systems For Analyzing Complex Biological Systems as described and/or claimed in our application for United States Letters Patent, and subsequently³ officially identified as:

Serial Number PCT/US02/37301 filed on November 20, 2002

and in and to any and all non-provisionals, continuations, continuations-in-part (CIP), divisions, international or foreign patent applications claiming priority thereof, and as subsequently³ officially identified below:

Serial Number _____ filed on _____,

Serial Number _____ filed on _____,

Serial Number _____ filed on _____,

Serial Number _____ filed on _____;

² We hereby authorize PARADIGM GENETICS to insert in this instrument the serial number and the filing date of said application(s) when officially notified thereof.

³ We hereby authorize PARADIGM GENETICS to insert in this instrument the serial number and the filing date of said application(s) when officially notified thereof.

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and to any other future improvements, the right to file patent applications in the name of PARADIGM GENETICS, its designee, or in any or all of our names, at its election, on the aforesaid inventions and discoveries in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified United States patent application(s) under the International Convention for the Protection of Industrial Property, under the International American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement to which the United States now is or hereafter becomes a signatory, in and to any and all Letters Patent that issue on any of the aforesaid patent applications, and in and to any reissues, reexams, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said PARADIGM GENETICS, its successors, assigns and other legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we Hereby Covenant and agree that we will at any time, upon the request and at the expense of PARADIGM GENETICS, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, and Letters Patent and reissues, renewals and extensions thereof in PARADIGM GENETICS, its successors, assigns or other legal representatives, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and that we will, at any time, upon the request and at the expense of PARADIGM GENETICS, execute any additional or divisional applications for patents for said inventions and discoveries, or any part or parts thereof, and applications for patents of confirmation, registration and importation based on said Letters Patent and on Letters Patent issuing from said additional divisional applications and reissues, renewals and extensions therefor, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of PARADIGM GENETICS, its successors, assigns or other legal representatives.

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Executed on this 1 day of OCT, 2003.

Christopher Beecher
Christopher Beecher

State of NC)
County of Durham) §:

Before me this 1st day of October, 2003, personally appeared the above named individual, to me known to be the person who is described in, and who executed the foregoing assignment instrument and acknowledged to me that he/she executed the same of his own free will for the purpose therein expressed.

IN WITNESS WHEREOF, I have hereunto set hand and seal this 1st day of October, 2003.

(Seal)



Wilminie Thambugala
(Notary Public)