

04-15-2002

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



102054978

To the Honorable Commissioner of

Patent and Trademark Office, the attached original documents or copy thereof.

1. Name of conveying party(ies): 4-1-02
Lisbeth Hamer (a), Kiichi Adachi (a), Todd M.
DeZwaan (b), Sze-Chung Lo (b), Maria Victoria
Montenegro-Chamorro (b), Sheryl Frank (b),
Blaise Darveaux (c), Sanjoy K. Mahanty (d),
Ryan Heiniger (d), Amy Skalchunes (d), Huaqin
Pan (d), Rex Tarpey (e), Jeffrey Shuster (b),
Matthew Tanzer (b)

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Execution Dates: (a) 02/19/02, (b) 02/25/02, (c) 03/05/02,
(d) 02/15/02, (e) 02/21/02

2. Name and address of receiving party(ies)

Name: Paradigm Genetics, Inc.Internal Address: 104 Alexander Drive, Building 2P.O. Box 14528

Street Address: _____

City: 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)

10/010,227

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Laura KieferInternal Address: Paradigm Genetics, Inc.Patent and Trademark Dept.Street Address: 104 Alexander Drive, P.O. Box 14528City: RTP State: NC ZIP: 277096. Total number of applications and patents involved: 17. 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)

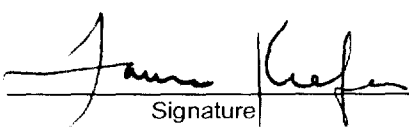
04/12/2002 DBYRNE 00000287 500885 10010227

DO NOT USE THIS SPACE

01 FC:581 40.00 CH

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.

Laura KieferName of Person Signing
Reg. No. 48,154
Signature3/14/02
Date

Total number of pages including cover sheet, attachments, and document: 23

PATENT
REEL: 012774 FRAME: 0946

ASSIGNMENT

For good and valuable consideration paid to us,

- 1) Lisbeth Hamer of 3414 Dover Road, Durham, North Carolina 27707
- 2) Kiichi Adachi of 31 Dansey Circle, Apt. N, Durham, North Carolina 27713
- 3) Todd M. DeZwaan of 2216 Colony Woods Drive, Apex, North Carolina 27502
- 4) Sze-Chung Lo of 5011 S. Alston Avenue, Apt. J203, Durham, North Carolina 27713
- 5) Maria Victoria Montenegro-Chamorro of 2324 Winter Walk Circle, Morrisville, North Carolina 27560
- 6) Sheryl Frank of 600 Mahone Street, # 11, Durham, North Carolina 27713
- 7) Blaise Darveaux of 104 Bonparte Drive, Hillsborough, North Carolina 27278
- 8) Sanjoy K. Mahanty of 514 Highgrove Drive, Chapel Hill, North Carolina 27516
- 9) Ryan Heiniger of 1901 Trailwood Hgts, Apt 101, Raleigh, North Carolina 27603
- 10) Amy Skalchunes of 3505 Apache Drive, Raleigh, North Carolina 27609
- 11) Huaqin Pan of 2203 Henniker Street, Apex, North Carolina 27502
- 12) Rex Tarpey of 1911 Housatonic Lane, Apex, North Carolina 27502
- 13) Jeffrey Shuster of 110 Graylyn Drive, Chapel Hill, North Carolina 27516
- 14) Matthew M. Tanzer of 6 ~~Drake~~way Court, Durham, North Carolina 27713 *Drakesway* ~~27713~~

by PARADIGM GENETICS, INC., a corporation organized under the laws of the State of Delaware, having its principal office at 104 Alexander Drive, Building 2, Research Triangle Park, North Carolina 27709 (hereinafter called "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 **Methods for the Identification of Inhibitors of 3-Isopropylmalate Dehydratase as Antibiotics** as described and/or claimed in our application for United States Letters Patent, and subsequently¹ officially identified as:

- (1) Serial Number 10/010,227 filed on December 06, 2001
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:
- (2) Serial Number _____ filed on _____,
- (3) 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.

- (4) Serial Number _____ filed on _____,
- (5) Serial Number _____ filed on _____,
- (6) Serial Number _____ filed on _____,
- (7) Serial Number _____ filed on _____,
- (8) Serial Number _____ filed on _____,
- (9) Serial Number _____ filed on _____,
- (10) Serial Number _____ filed on _____,
- (11) Serial Number _____ filed on _____,
- (12) Serial Number _____ filed on _____,
- (13) Serial Number _____ filed on _____,
- (14) Serial Number _____ filed on _____,
- (15) Serial Number _____ filed on _____,

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.

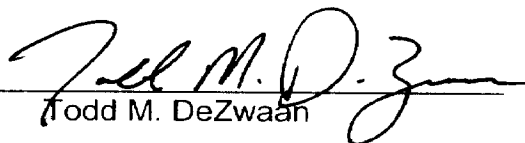
Executed on this 19 day of February, 2002.


Lisbeth Hamer

Executed on this 19 day of February, 2002.


Kiichi Adachi


Executed on this 25th day of February, 2002.


Todd M. DeZwaan

Executed on this 25th day of February, 2002.


Sze-Chung Lo

Executed on this 25th day of February, 2002


Maria Victoria Montenegro-Chamorro

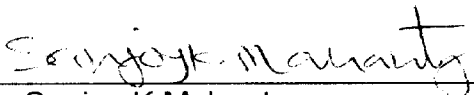
Executed on this 25th day of February, 2002


Sheryl Frank

Executed on this _____ day of _____, 20____.

Blaise Darveaux

Executed on this 15th day of February, 2002


Sanjoy K. Mahanty

Executed on this 15th day of February, 2002.

Ryan Heiniger
Ryan Heiniger

Executed on this 15th day of February, 2002.

Amy Skalchunes
Amy Skalchunes

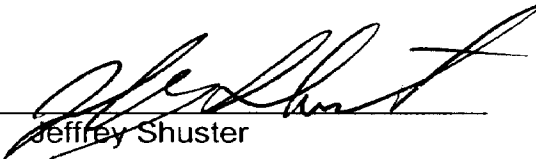
Executed on this 15 day of February, 2002.

Huachin Pan
Huachin Pan

Executed on this _____ day of _____, 20____.


Rex Tarpey

Executed on this 25 day of FEBRUARY, 2002



Jeffrey Shuster

Executed on this 25 day of February, 2002



Matthew M. Tanzer

ASSIGNMENT

For good and valuable consideration paid to us,

- 1) Lisbeth Hamer of 3414 Dover Road, Durham, North Carolina 27707
- 2) Kiichi Adachi of 31 Dansey Circle, Apt. N, Durham, North Carolina 27713
- 3) Todd M. DeZwaan of 2216 Colony Woods Drive, Apex, North Carolina 27502
- 4) Sze-Chung Lo of 5011 S. Alston Avenue, Apt. J203, Durham, North Carolina 27713
- 5) Maria Victoria Montenegro-Chamorro of 2324 Winter Walk Circle, Morrisville, North Carolina 27560
- 6) Sheryl Frank of 600 Mahone Street, # 11, Durham, North Carolina 27713
- 7) Blaise Darveaux of 104 Bonparte Drive, Hillsborough, North Carolina 27278
- 8) Sanjoy K. Mahanty of 514 Highgrove Drive, Chapel Hill, North Carolina 27516
- 9) Ryan Heiniger of 1901 Trailwood Hgts, Apt 101, Raleigh, North Carolina 27603
- 10) Amy Skalchunes of 3505 Apache Drive, Raleigh, North Carolina 27609
- 11) Huaqin Pan of 2203 Henniker Street, Apex, North Carolina 27502
- 12) Rex Tarpey of 1911 Housatonic Lane, Apex, North Carolina 27502
- 13) Jeffrey Shuster of 110 Graylyn Drive, Chapel Hill, North Carolina 27516
- 14) Matthew M. Tanzer of 6 Drakeway Court, Durham, North Carolina 27713

by PARADIGM GENETICS, INC., a corporation organized under the laws of the State of Delaware, having its principal office at 104 Alexander Drive, Building 2, Research Triangle Park, North Carolina 27709 (hereinafter called "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 **Methods for the Identification of Inhibitors of 3-Isopropylmalate Dehydratase as Antibiotics** as described and/or claimed in our application for United States Letters Patent, and subsequently¹ officially identified as:

- (1) Serial Number 10/010,227 filed on December 06, 2001
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:
- (2) Serial Number _____ filed on _____,
- (3) 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.

- (4) Serial Number _____ filed on _____,
- (5) Serial Number _____ filed on _____,
- (6) Serial Number _____ filed on _____,
- (7) Serial Number _____ filed on _____,
- (8) Serial Number _____ filed on _____,
- (9) Serial Number _____ filed on _____,
- (10) Serial Number _____ filed on _____,
- (11) Serial Number _____ filed on _____,
- (12) Serial Number _____ filed on _____,
- (13) Serial Number _____ filed on _____,
- (14) Serial Number _____ filed on _____,
- (15) Serial Number _____ filed on _____,

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.

Executed on this _____ day of _____, 20____.

Lisbeth Hamer

Executed on this _____ day of _____, 20____.

Kiichi Adachi

Executed on this _____ day of _____, 20____.

Todd M. DeZwaan

Executed on this _____ day of _____, 20____.

Sze-Chung Lo

Executed on this _____ day of _____, 20____.

Maria Victoria Montenegro-Chamorro

Executed on this _____ day of _____, 20____.

Sheryl Frank

Executed on this 5th day of March, 2002.

Blaise Darveaux
Blaise Darveaux

Executed on this _____ day of _____, 20____.

Sanjoy K.Mahanty

Executed on this _____ day of _____, 20____.

Ryan Heiniger

Executed on this _____ day of _____, 20____.

Amy Skalchunes

Executed on this _____ day of _____, 20____.

Huaqin Pan

Executed on this _____ day of _____, 20____.

Rex Tarpey

Executed on this _____ day of _____, 20____.

Jeffrey Shuster

Executed on this _____ day of _____, 20____.

Matthew M.Tanzer

ASSIGNMENT

For good and valuable consideration paid to us,

- 1) Lisbeth Hamer of 3414 Dover Road, Durham, North Carolina 27707
- 2) Kiichi Adachi of 31 Dansey Circle, Apt. N, Durham, North Carolina 27713
- 3) Todd M. DeZwaan of 2216 Colony Woods Drive, Apex, North Carolina 27502
- 4) Sze-Chung Lo of 5011 S. Alston Avenue, Apt. J203, Durham, North Carolina 27713
- 5) Maria Victoria Montenegro-Chamorro of 2324 Winter Walk Circle, Morrisville, North Carolina 27560
- 6) Sheryl Frank of 600 Mahone Street, # 11, Durham, North Carolina 27713
- 7) Blaise Darveaux of 104 Bonparte Drive, Hillsborough, North Carolina 27278
- 8) Sanjoy K. Mahanty of 514 Highgrove Drive, Chapel Hill, North Carolina 27516
- 9) Ryan Heiniger of 1901 Trailwood Hgts, Apt 101, Raleigh, North Carolina 27603
- 10) Amy Skalchunes of 3505 Apache Drive, Raleigh, North Carolina 27609
- 11) Huaqin Pan of 2203 Henniker Street, Apex, North Carolina 27502
- 12) Rex Tarpey of 1911 Housatonic Lane, Apex, North Carolina 27502
- 13) Jeffrey Shuster of 110 Graylyn Drive, Chapel Hill, North Carolina 27516
- 14) Matthew M. Tanzer of 6 Drakeway Court, Durham, North Carolina 27713

by PARADIGM GENETICS, INC., a corporation organized under the laws of the State of Delaware, having its principal office at 104 Alexander Drive, Building 2, Research Triangle Park, North Carolina 27709 (hereinafter called "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 **Methods for the Identification of Inhibitors of 3-Isopropylmalate Dehydratase as Antibiotics** as described and/or claimed in our application for United States Letters Patent, and subsequently¹ officially identified as:

- (1) Serial Number 10/010,227 filed on December 06, 2001
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:
- (2) Serial Number _____ filed on _____,
- (3) 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.

- (4) Serial Number _____ filed on _____,
- (5) Serial Number _____ filed on _____,
- (6) Serial Number _____ filed on _____,
- (7) Serial Number _____ filed on _____,
- (8) Serial Number _____ filed on _____,
- (9) Serial Number _____ filed on _____,
- (10) Serial Number _____ filed on _____,
- (11) Serial Number _____ filed on _____,
- (12) Serial Number _____ filed on _____,
- (13) Serial Number _____ filed on _____,
- (14) Serial Number _____ filed on _____,
- (15) Serial Number _____ filed on _____,

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.

Executed on this _____ day of _____, 20____.

Lisbeth Hamer

Executed on this _____ day of _____, 20____.

Kiichi Adachi

Executed on this _____ day of _____, 20____.

Todd M. DeZwaan

Executed on this _____ day of _____, 20____.

Sze-Chung Lo

Executed on this _____ day of _____, 20____.

Maria Victoria Montenegro-Chamorro

Executed on this _____ day of _____, 20____.

Sheryl Frank

Executed on this _____ day of _____, 20____.

Blaise Darveaux

Executed on this _____ day of _____, 20____.

Sanjoy K.Mahanty

Executed on this _____ day of _____, 20____.

Ryan Heiniger

Executed on this _____ day of _____, 20____.

Amy Skalchunes

Executed on this _____ day of _____, 20____.

Huaqin Pan

Executed on this 21 day of February, 2022.

[Signature]
Rex Tarpey

Executed on this _____ day of _____, 20____.

Jeffrey Shuster

Executed on this _____ day of _____, 20____.

Matthew M.Tanzer