

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | | | | | |
|--|--------------------|---------------|--------------------|---------------------|--------------------|------------------------|------------|---------|--------------|-------------------|--------------|--------------------|------------|-----------------|------------|----------------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Ming Xiao</td><td>07/16/2008</td></tr><tr><td>Parikshit A. Deshpande</td><td>07/16/2008</td></tr><tr><td>Han Cao</td><td>07/16/2008</td></tr><tr><td>Michael D. Austin</td><td>07/16/2008</td></tr><tr><td>Kandaswamy Vijayan</td><td>07/16/2008</td></tr><tr><td>Alexey Sharonov</td><td>07/16/2008</td></tr><tr><td>Michael Boyce-Jacino</td><td>07/16/2008</td></tr></tbody></table> | | Name | Execution Date | Ming Xiao | 07/16/2008 | Parikshit A. Deshpande | 07/16/2008 | Han Cao | 07/16/2008 | Michael D. Austin | 07/16/2008 | Kandaswamy Vijayan | 07/16/2008 | Alexey Sharonov | 07/16/2008 | Michael Boyce-Jacino | 07/16/2008 |
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| Ming Xiao | 07/16/2008 | | | | | | | | | | | | | | | | |
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| Michael Boyce-Jacino | 07/16/2008 | | | | | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | | | | | |
| <table border="1"><tr><td>Name:</td><td>BioNanomatrix, LLC</td></tr><tr><td>Street Address:</td><td>3624 Market Street</td></tr><tr><td>Internal Address:</td><td>5E</td></tr><tr><td>City:</td><td>Philadelphia</td></tr><tr><td>State/Country:</td><td>PENNSYLVANIA</td></tr><tr><td>Postal Code:</td><td>19104</td></tr></table> | | Name: | BioNanomatrix, LLC | Street Address: | 3624 Market Street | Internal Address: | 5E | City: | Philadelphia | State/Country: | PENNSYLVANIA | Postal Code: | 19104 | | | | |
| Name: | BioNanomatrix, LLC | | | | | | | | | | | | | | | | |
| Street Address: | 3624 Market Street | | | | | | | | | | | | | | | | |
| Internal Address: | 5E | | | | | | | | | | | | | | | | |
| City: | Philadelphia | | | | | | | | | | | | | | | | |
| State/Country: | PENNSYLVANIA | | | | | | | | | | | | | | | | |
| Postal Code: | 19104 | | | | | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13001697</td></tr></tbody></table> | | Property Type | Number | Application Number: | 13001697 | | | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | | | |
| Application Number: | 13001697 | | | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | | | |
| Fax Number: (215)568-3439 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | | | | | | | |
| Phone: 215-568-3100 | | | | | | | | | | | | | | | | | |
| Email: vchicchi@woodcock.com | | | | | | | | | | | | | | | | | |
| Correspondent Name: Woodcock Washburn LLP | | | | | | | | | | | | | | | | | |
| Address Line 1: 2929 Arch Street, 12th Floor | | | | | | | | | | | | | | | | | |
| Address Line 4: Philadelphia, PENNSYLVANIA 19104 | | | | | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | BNMX-0059 | | | | | | | | | | | | | | | | |

PATENT

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NAME OF SUBMITTER:

Valerie Chicchi

Total Attachments: 8

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DOCKET NO.: BNMX-0020

PATENT
Joint Inventors/Contributors

**(Provisional Application;
Application No. Known)**

ASSIGNMENT

WHEREAS, we, **Ming Xiao** residing at **3528 Walsh Lane, Huntington Valley, Pennsylvania 19006**, **Parikshit A. Deshpande** residing at **101 Lassen Court, Apt. 4, Princeton, New Jersey 08540**, **Han Cao** residing at **2001 Hamilton Street, Suite 2123, Philadelphia, Pennsylvania 19130**, **Michael D. Austin** residing at **911 South Bodine Street, Philadelphia, Pennsylvania 19147**, **Kandaswamy Vijayan** residing at **107 South 21st Street, Apt. A, Philadelphia, Pennsylvania 19103**, **Alexey Sharonov** residing at **2610 Valley Road, Drexel Hill, Pennsylvania 19026**, and **Michael Boyce-Jacino** residing at **2 Clark Court, Titusville, New Jersey 08560**, hereinafter referred to as the assignors, are the joint inventors and/or contributors of certain inventions or improvements for which we have filed a provisional application in the United States Patent and Trademark Office, identified as Application No. **61/076,785**, filed **June 30, 2008**, entitled **SINGLE MOLECULE WHOLE GENOME ANALYSIS**; and

WHEREAS, **BioNanomatrix, LLC**, hereinafter referred to as the assignee, of **3624 Market Street, 5E, Philadelphia, Pennsylvania 19104**, a corporation of **Delaware**, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said provisional application, and to any patent application(s) corresponding thereto, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, effective as of June 30, 2008, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said provisional application and any and all corresponding patent application(s) and continuations, divisions and renewals of and substitutes for said corresponding patent application(s), and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names corresponding patent applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to

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perfect the title to said inventions or improvements, said provisional application and said corresponding patent application(s) and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said provisional application, said corresponding patent application(s) and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on any applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of any corresponding patent application(s) aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

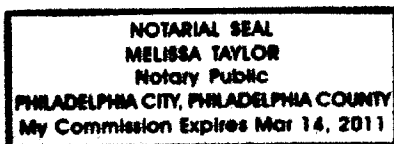
July 16, 2008
Date

Ming Xiao (L.S.)


STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS

On this 16 day of July, year of 2008, before me personally came the above named **Ming Xiao** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Melissa Taylor
Notary Public

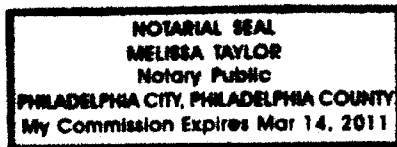


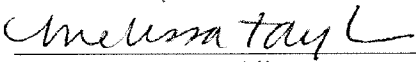
Date July 16/08

 (L.S.)
Parikshit A. Deshpande

STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS

On this 16 day of July, year of 2008, before me personally came the above named **Parikshit A. Deshpande** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



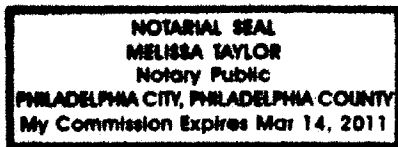

Notary Public

7/16/08
Date

Han Cao (L.S.)
Han Cao

STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS

On this 16 day of July, year of 2008, before me personally came the above named **Han Cao** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



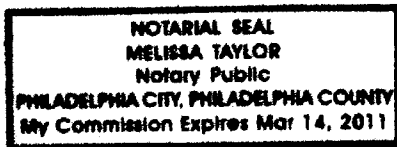
Melissa Taylor
Notary Public

July 16/2008
Date

Michael D. Austin (L.S.)
Michael D. Austin

STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS

On this 16 day of July, year of 2008, before me personally came the above named **Michael D. Austin** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



Melissa Taylor
Notary Public

DOCKET NO.: BNMx-0020

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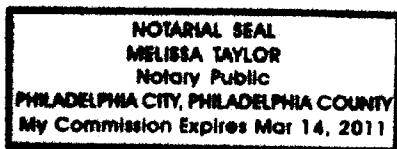
PATENT
Joint Inventors/Contributors

July 16, 2008
Date

[Signature] (L.S.)
Kandaswamy Vijayan

STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS

On this 16 day of July, year of 2008, before me personally came the above named **Kandaswamy Vijayan** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



[Signature]
Notary Public

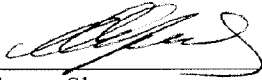
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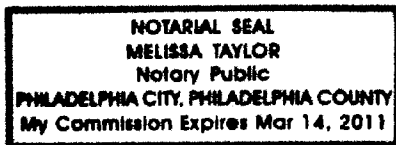
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Joint Inventors/Contributors

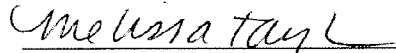
07/16/08
Date

 (L.S.)
Alexey Sharonov

STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS

On this 16 day of July, year of 2008, before me personally came the above named **Alexey Sharonov** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.




Notary Public

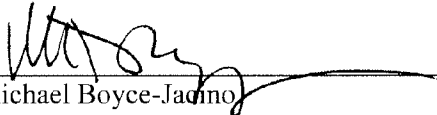
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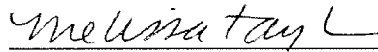
PATENT
Joint Inventors/Contributors

7-16-08
Date

 (L.S.)
Michael Boyce-Jacino

STATE OF Pennsylvania:
COUNTY OF Philadelphia: SS

On this 16 day of July, year of 2008, before me personally came the above named **Michael Boyce-Jacino** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.


Notary Public

