

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5157287

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | CORRECTIVE ASSIGNMENT                                                                                                                                              |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | Corrective Assignment to correct the NAME OF THE ASSIGNEE: ABYRX, INC. previously recorded on Reel 036716 Frame 0667. Assignor(s) hereby confirms the ASSIGNMENT.. |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                                                                                                                                    |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>                                                                                                                                              |
| MR. JOHN PACIFICO                                                                                                                                                                               | 09/16/2015                                                                                                                                                         |
| MR. FRANK DO                                                                                                                                                                                    | 09/16/2015                                                                                                                                                         |
| DR. RICHARD KRONENTHAL                                                                                                                                                                          | 09/16/2015                                                                                                                                                         |
| MR. ANIQ DARR                                                                                                                                                                                   | 09/17/2015                                                                                                                                                         |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                                                                                                                                    |
| <b>Name:</b>                                                                                                                                                                                    | ABYRX, INC.                                                                                                                                                        |
| <b>Street Address:</b>                                                                                                                                                                          | ONE BRIDGE STREET                                                                                                                                                  |
| <b>Internal Address:</b>                                                                                                                                                                        | SUITE 121                                                                                                                                                          |
| <b>City:</b>                                                                                                                                                                                    | IRVINGTON                                                                                                                                                          |
| <b>State/Country:</b>                                                                                                                                                                           | NEW YORK                                                                                                                                                           |
| <b>Postal Code:</b>                                                                                                                                                                             | 10533                                                                                                                                                              |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                                                                                                                                                    |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                                                                                                                                                      |
| <b>Application Number:</b>                                                                                                                                                                      | 14850025                                                                                                                                                           |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                                                                                                                                    |
| <b>Fax Number:</b>                                                                                                                                                                              | (202)842-7899                                                                                                                                                      |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                                                                                                                                                    |
| <b>Phone:</b>                                                                                                                                                                                   | 6179372383                                                                                                                                                         |
| <b>Email:</b>                                                                                                                                                                                   | lromano@cooley.com                                                                                                                                                 |
| <b>Correspondent Name:</b>                                                                                                                                                                      | CHRISTINA K. STOCK                                                                                                                                                 |
| <b>Address Line 1:</b>                                                                                                                                                                          | COOLEY LLP                                                                                                                                                         |
| <b>Address Line 2:</b>                                                                                                                                                                          | 1299 PENNSYLVANIA AVENUE NW, SUITE 700                                                                                                                             |
| <b>Address Line 4:</b>                                                                                                                                                                          | WASHINGTON, D.C. 20004                                                                                                                                             |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | ABRX-009/001US                                                                                                                                                     |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | CHRISTINA K. STOCK                                                                                                                                                 |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Christina K. Stock/                                                                                                                                               |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 09/25/2018                                                                                                                                                         |

**Total Attachments: 7**

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## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3553979

|                                                                                                                                                                                                 |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                    |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                               |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>         |
| MR. JOHN PACIFICO                                                                                                                                                                               | 09/16/2015                    |
| MR. FRANK DO                                                                                                                                                                                    | 09/16/2015                    |
| DR. RICHARD KRONENTHAL                                                                                                                                                                          | 09/16/2015                    |
| MR. ANIQ DARR                                                                                                                                                                                   | 09/17/2015                    |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                               |
| <b>Name:</b>                                                                                                                                                                                    | ABYRX INC.                    |
| <b>Street Address:</b>                                                                                                                                                                          | ONE BRIDGE STREET             |
| <b>Internal Address:</b>                                                                                                                                                                        | SUITE 121                     |
| <b>City:</b>                                                                                                                                                                                    | IRVINGTON                     |
| <b>State/Country:</b>                                                                                                                                                                           | NEW YORK                      |
| <b>Postal Code:</b>                                                                                                                                                                             | 10533                         |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                               |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                 |
| Application Number:                                                                                                                                                                             | 14850025                      |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                               |
| <b>Fax Number:</b>                                                                                                                                                                              | (212)983-3115                 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                               |
| <b>Phone:</b>                                                                                                                                                                                   | (212) 692-6257                |
| <b>Email:</b>                                                                                                                                                                                   | IPDocketingBOS@mintz.com      |
| <b>Correspondent Name:</b>                                                                                                                                                                      | MINTZ LEVIN                   |
| <b>Address Line 1:</b>                                                                                                                                                                          | CHRYSLER CENTER               |
| <b>Address Line 2:</b>                                                                                                                                                                          | 666 THIRD AVENUE              |
| <b>Address Line 4:</b>                                                                                                                                                                          | NEW YORK, NEW YORK 10017      |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 37159-516001US                |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | MURIEL LIBERTO, PH.D., ESQ.   |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Muriel Liberto, Ph.D., Esq./ |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 10/02/2015                    |
| <b>Total Attachments: 4</b>                                                                                                                                                                     |                               |



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| 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>MR. JOHN PACIFICO</td><td>09/16/2015</td></tr><tr><td>MR. FRANK DO</td><td>09/16/2015</td></tr><tr><td>DR. RICHARD KRONENTHAL</td><td>09/16/2015</td></tr><tr><td>MR. ANIQ DARR</td><td>09/17/2015</td></tr></tbody></table>  |                   | Name          | Execution Date | MR. JOHN PACIFICO   | 09/16/2015        | MR. FRANK DO      | 09/16/2015 | DR. RICHARD KRONENTHAL | 09/16/2015 | MR. ANIQ DARR  | 09/17/2015 |              |       |
| Name                                                                                                                                                                                                                                                                                                                       | Execution Date    |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| MR. JOHN PACIFICO                                                                                                                                                                                                                                                                                                          | 09/16/2015        |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| MR. FRANK DO                                                                                                                                                                                                                                                                                                               | 09/16/2015        |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| DR. RICHARD KRONENTHAL                                                                                                                                                                                                                                                                                                     | 09/16/2015        |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| MR. ANIQ DARR                                                                                                                                                                                                                                                                                                              | 09/17/2015        |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                                                       |                   |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| <table border="1"><tr><td>Name:</td><td>ABYRX INC.</td></tr><tr><td>Street Address:</td><td>ONE BRIDGE STREET</td></tr><tr><td>Internal Address:</td><td>SUITE 121</td></tr><tr><td>City:</td><td>IRVINGTON</td></tr><tr><td>State/Country:</td><td>NEW YORK</td></tr><tr><td>Postal Code:</td><td>10533</td></tr></table> |                   | Name:         | ABYRX INC.     | Street Address:     | ONE BRIDGE STREET | Internal Address: | SUITE 121  | City:                  | IRVINGTON  | State/Country: | NEW YORK   | Postal Code: | 10533 |
| Name:                                                                                                                                                                                                                                                                                                                      | ABYRX INC.        |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| Street Address:                                                                                                                                                                                                                                                                                                            | ONE BRIDGE STREET |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| Internal Address:                                                                                                                                                                                                                                                                                                          | SUITE 121         |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| City:                                                                                                                                                                                                                                                                                                                      | IRVINGTON         |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| State/Country:                                                                                                                                                                                                                                                                                                             | NEW YORK          |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| Postal Code:                                                                                                                                                                                                                                                                                                               | 10533             |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| 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>14850025</td></tr></tbody></table>                                                                                                                                                               |                   | Property Type | Number         | Application Number: | 14850025          |                   |            |                        |            |                |            |              |       |
| Property Type                                                                                                                                                                                                                                                                                                              | Number            |               |                |                     |                   |                   |            |                        |            |                |            |              |       |
| Application Number:                                                                                                                                                                                                                                                                                                        | 14850025          |               |                |                     |                   |                   |            |                        |            |                |            |              |       |

**PATENT**

**CORRESPONDENCE DATA**

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Address Line 1: CHRYSLER CENTER  
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**ATTORNEY DOCKET  
NUMBER:**

37159-516001US

**NAME OF SUBMITTER:**

MURIEL LIBERTO, PH.D., ESQ.

**Signature:**

/Muriel Liberto, Ph.D., Esq./

**Date:**

10/02/2015

**Total Attachments: 4**

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Receipt Date: 10/02/2015

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**PATENT**

## ASSIGNMENT

We, **John Pacifico, Frank Do, Richard L. Kronenthal, and Aniq Darr**, are the inventors of the inventions identified below:

### ***DEVICE FOR THE APPLICATION OF BIOMATERIALS TO TISSUE***

**U.S. NonProvisional Patent Application No. 14/850,025, filed September 10, 2015**

**U.S. Provisional Patent Application No. 62/048,597, filed September 10, 2014**

**U.S. Provisional Patent Application No. 62/049,835, filed September 12, 2014**

We, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that we have sold and assigned, and do hereby assign, sell and transfer to **ABYRX, Inc.**, having a place of business at **One Bridge Street, Suite 121, Irvington, NY 10533** and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in these applications including any subsequently filed applications, which claim priority to any of these applications, and including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefore; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my name at the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.


We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

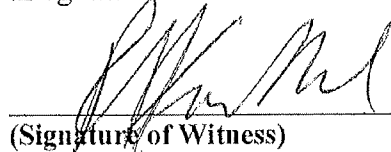
Date: September 16, 2015



Signature of: John Pacifico

IN WITNESS WHEREOF, I, R. KRONENTHALE, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

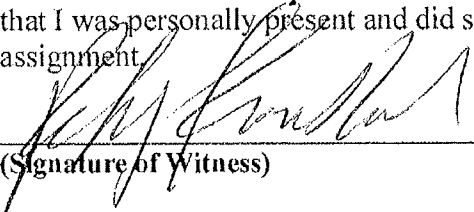
  
(Signature of Witness)

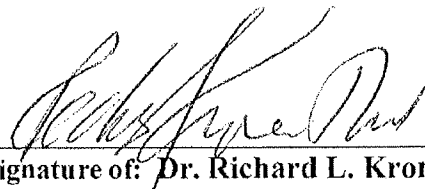
Date: September 16, 2015

Date: 9-16-15   
Signature of: Frank Do

IN WITNESS WHEREOF, I, R. Kronenthal, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

 Date: 9-16-15  
(Signature of Witness)

Date: 9-16-15   
Signature of: Dr. Richard L. Kronenthal

IN WITNESS WHEREOF, I, F. Do, hereby declare  
(Printed Name of Witness)

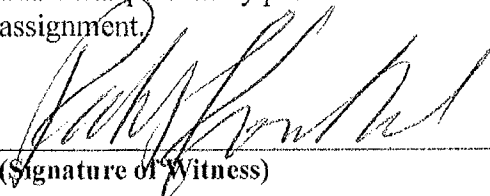
that I was personally present and did see the above named person duly sign and execute the assignment.

 Date: 9-16-15  
(Signature of Witness)

Date: 9-17-15   
Signature of: Aniq Darr

IN WITNESS WHEREOF, I, RICHARD KRONENTHAL, hereby declare  
(Printed Name of Witness)

that I was personally present and did see the above named person duly sign and execute the assignment.

 Date: 9-17-15  
(Signature of Witness)