

## 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>Jeffrey R. Morgan</td> <td>03/04/2013</td> </tr> <tr> <td>Toni-Marie Achilli</td> <td>03/04/2013</td> </tr> <tr> <td>Anubhav Tripathi</td> <td>03/04/2013</td> </tr> <tr> <td>Stephanie McCalla</td> <td>11/08/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jeffrey R. Morgan	03/04/2013	Toni-Marie Achilli	03/04/2013	Anubhav Tripathi	03/04/2013	Stephanie McCalla	11/08/2012
Name	Execution Date										
Jeffrey R. Morgan	03/04/2013										
Toni-Marie Achilli	03/04/2013										
Anubhav Tripathi	03/04/2013										
Stephanie McCalla	11/08/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Brown University</td> </tr> <tr> <td>Street Address:</td> <td>One Prospect Street</td> </tr> <tr> <td>City:</td> <td>Providence</td> </tr> <tr> <td>State/Country:</td> <td>RHODE ISLAND</td> </tr> <tr> <td>Postal Code:</td> <td>02912</td> </tr> </table>		Name:	Brown University	Street Address:	One Prospect Street	City:	Providence	State/Country:	RHODE ISLAND	Postal Code:	02912
Name:	Brown University										
Street Address:	One Prospect Street										
City:	Providence										
State/Country:	RHODE ISLAND										
Postal Code:	02912										
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>13623599</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13623599						
Property Type	Number										
Application Number:	13623599										
CORRESPONDENCE DATA											
<p>Fax Number: 9783410136  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 978-341-0036        Email: iris.fennell@hbsr.com</p> <p>Correspondent Name: Mary K. Murray, Ph.D.        Address Line 1: Hamilton, Brook, Smith &amp; Reynolds, P.C.        Address Line 2: 530 Virginia Road, P.O. Box 9133        Address Line 4: Concord, MASSACHUSETTS 01742-9133</p>											
ATTORNEY DOCKET NUMBER:	2670.2021-001										
NAME OF SUBMITTER:	Iris Fennell										
Total Attachments: 8											

CH \$40.00 13623599

source=26702021001Assignment#page1.tif  
source=26702021001Assignment#page2.tif  
source=26702021001Assignment#page3.tif  
source=26702021001Assignment#page4.tif  
source=26702021001ASGMcCalla#page1.tif  
source=26702021001ASGMcCalla#page2.tif  
source=26702021001ASGMcCalla#page3.tif  
source=26702021001ASGMcCalla#page4.tif

Joint

ASSIGNMENT

WHEREAS, we, **Jeffrey R. Morgan, Toni-Marie Achilli, Anubhav Tripathi and Stephanie McCalla**, have invented a certain improvement in **Differential Effects Of Drugs On Transport In A Multi-layer 3D Spheroid Model** described in an application for Patent,

- ☐ the specification of which is about to be filed in the United States Patent Office *(use for utility (37 CFR § 1.53(b)) and design filings only)*;
- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☒ the specification of which is United States Application No. **13/623,599**, filed **September 20, 2012**;
- ☐ the specification of which is a Patent Cooperation Treaty Application, International Application No. \_\_\_\_\_, filed \_\_\_\_\_, which designates the United States of America [and is assigned United States Application No. \_\_\_\_\_];
- ☐ which was patented under United States Patent No. \_\_\_\_\_.

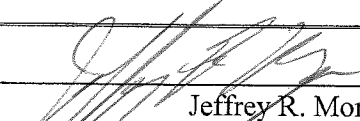
WHEREAS, **Brown University** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Rhode Island**, and having a usual place of business at **One Prospect Street, Providence, Rhode Island 02912** desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;


AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor  Date 3/4/13  
Jeffrey R. Morgan

Address 1 Prospect Street

Providence, Rhode Island 02912

Witness Signature 

Print Witness Name Timothy M. Durning

Address 32 TAFT AVE

PROVIDENCE, RI 02906

Witness Signature 

Print Witness Name DAVID SHOGBO

Address BOX GB 304, YRAN UNIVERSITY, PROVIDENCE RI 02912

Inventor Toni Marie Achilli Date 3/4/2013  
Toni-Marie Achilli

Address 1 Prospect Street  
Providence, Rhode Island 02912

Witness Signature Jacquelyn Y. Schell

Print Witness Name Jacquelyn Y. Schell

Address 545 Page St. #107  
Stoughton, MA 02072

Witness Signature Yu-Ting L Dingle

Print Witness Name Yu-Ting L Dingle

Address 2222 Washington St Apt 1, Canton, MA 02021

Inventor Anubhav Tripathi Date 03/04/13  
Anubhav Tripathi

Address 1 Prospect Street  
Providence, Rhode Island 02912

Witness Signature Eric Darling

Print Witness Name Eric Darling

Address 43 Kennedy Ct  
Cumberland, RI 02864

Witness Signature Timothy M. Durning

Print Witness Name Timothy M. Durning

Address 32 Taft Ave. Providence, RI 02906

---

Inventor \_\_\_\_\_ Date \_\_\_\_\_  
Stephanie McCalla

Address \_\_\_\_\_  
1 Prospect Street  
Providence, Rhode Island 02912

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

---

JointASSIGNMENT

WHEREAS, we, **Jeffrey R. Morgan, Toni-Marie Achilli, Anubhav Tripathi and Stephanie McCalla**, have invented a certain improvement in **Differential Effects Of Drugs On Transport In A Multi-layer 3D Spheroid Model** described in an application for Patent,

- ☐ the specification of which is about to be filed in the United States Patent Office *(use for utility (37 CFR § 1.53(b)) and design filings only)*;
- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☒ the specification of which is United States Application No. **13/623,599**, filed **September 20, 2012**;
- ☐ the specification of which is a Patent Cooperation Treaty Application, International Application No. \_\_\_\_\_, filed \_\_\_\_\_, which designates the United States of America [and is assigned United States Application No. \_\_\_\_\_];
- ☐ which was patented under United States Patent No. \_\_\_\_\_.

WHEREAS, **Brown University** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Rhode Island**, and having a usual place of business at **One Prospect Street, Providence, Rhode Island 02912** desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

---

Inventor \_\_\_\_\_ Date \_\_\_\_\_  
Jeffrey R. Morgan

Address \_\_\_\_\_  
1 Prospect Street  
Providence, Rhode Island 02912

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_



Inventor \_\_\_\_\_ Date \_\_\_\_\_

Toni-Marie Achilli

Address \_\_\_\_\_ 1 Prospect Street

Providence, Rhode Island 02912

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Inventor \_\_\_\_\_ Date \_\_\_\_\_

Anubhav Tripathi

Address \_\_\_\_\_ 1 Prospect Street

Providence, Rhode Island 02912

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Inventor Stephanie McCalla Date 11/8/12  
Stephanie McCalla

Address 1 Prospect Street 1783 1/2 Rose Villa St.  
Providence, Rhode Island 02912 Pasadena, CA 91106 SEN 11/2/12

Witness Signature [Signature]

Print Witness Name David Seluk

Address 411 E Bay State St #74  
Alhambra, CA 91801

Witness Signature [Signature]

Print Witness Name Scott McCalla

Address 1783 1/2 Rose Villa St  
Pasadena, CA 91106