

## PATENT ASSIGNMENT

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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>Stephen Tomlinson</td> <td>10/08/2012</td> </tr> <tr> <td>Songqing He</td> <td>10/09/2012</td> </tr> <tr> <td>Carl Atkinson</td> <td>10/08/2012</td> </tr> </tbody> </table>		Name	Execution Date	Stephen Tomlinson	10/08/2012	Songqing He	10/09/2012	Carl Atkinson	10/08/2012
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Stephen Tomlinson	10/08/2012								
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Carl Atkinson	10/08/2012								
RECEIVING PARTY DATA									
Name:	Medical University of South Carolina								
Street Address:	171 Ashley Avenue								
City:	Charleston								
State/Country:	SOUTH CAROLINA								
Postal Code:	29425								
PROPERTY NUMBERS Total: 2									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13380477</td> </tr> <tr> <td>PCT Number:</td> <td>US2010040973</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13380477	PCT Number:	US2010040973		
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CORRESPONDENCE DATA									
Fax Number:									
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Email:	patentadministrator@clarkelbing.com								
Correspondent Name:	Kristina Bieker-Brady, Ph.D.								
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ATTORNEY DOCKET NUMBER:	50867-012002 & 012WO2								
NAME OF SUBMITTER:	Kristina Bieker-Brady, Ph.D.								
<p>Total Attachments: 4</p> <p>source=50867-012002 Assignment Inventors to MUSC (PCT &amp; US) 2#page1.tif</p> <p>source=50867-012002 Assignment Inventors to MUSC (PCT &amp; US) 2#page2.tif</p> <p>source=50867-012002 Assignment Inventors to MUSC (PCT &amp; US) 2#page3.tif</p> <p>source=50867-012002 Assignment Inventors to MUSC (PCT &amp; US) 2#page4.tif</p>									

CH \$80.00 13380477

## ASSIGNMENT

This assignment is by:

1. Stephen TOMLINSON  
1287 Abercorn Trace  
Mount Pleasant, South Carolina 29466
2. Songqing HE  
40 Bee Street, Apt. 409  
Charleston, South Carolina 29403
3. Carl ATKINSON  
3249 Beaconsfield Road  
Park West  
Mount Pleasant, South Carolina 29466

(referred to in this Assignment as "Assignors"), who reside at or have a mailing address as listed above.

This Assignment is to:

Assignee: Medical University of South Carolina  
Address: 171 Ashley Avenue, Charleston, South Carolina 29403  
A corporation duly organized under and pursuant to the laws of: South Carolina

(referred to in this Assignment as "Assignee"), who desires to acquire assignors' entire right, title and interest in the International Application for Letters Patent (hereinafter referred to as "PCT application") set forth below and in said inventions set forth therein, and in and to any Letters Patent or Patents, United States or foreign counterparts, to be obtained therefrom and thereon.

Assignors have invented certain new and useful inventions in:

### METHODS OF STIMULATING LIVER REGENERATION

for which Assignors have filed a PCT application and a national phase application for Letters Patent in the United States of America derived from said PCT application with the filing dates and serial numbers listed below:

Serial No.: 13/380,477	Filing Date: July 2, 2010 (Int'l)
Serial No.: PCT/US2010/040973	Filing Date: July 2, 2010

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

1. Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over to Assignee, its successors, legal representatives and assigns, their entire right, title and interest in and to the above-mentioned inventions, PCT application for letters patent, and any and all letters patent or patents in the United States of America and all foreign countries which may be granted therefor and thereon, including all national phase and regional phase patents and patent applications derived from said PCT application and claiming benefit thereof, and in and to any and all provisionals, divisions, continuations, continuations-in-part and substitutions of said application, or reissues, re-examinations or extensions of said letters patent or patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee (including any right to institute actions and to recover for past, present and future infringement), for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which letters patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

2. Assignors represent, warrant and covenant that, at the time of execution and delivery of this agreement, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions, said PCT application for letters patent, and said national phase application for Letters Patent in the United States of America derived from said PCT application, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner set forth in this agreement.

3. Assignors shall promptly sign and execute all papers and documents, take all lawful oaths, and do all acts necessary, required or useful for the procurement, maintenance, enforcement, defense or otherwise to secure title thereto to the Assignee, at the sole cost and expense of Assignee, its successors, legal representatives and assigns, in each case including, without limitation, arising from or relating to (a) said inventions, said PCT application for letters patent, or said national phase application for Letters Patent in the United States of America derived from said PCT application; (b) letters patent for said inventions in any country, including any reissue, re-examination or extension of or interference proceedings; or (c) any provisional, division, continuation, continuation-in-part, or substitutions of any application for letters patent or any reissues, re-examinations, extensions or interference proceedings involving any letters patent, to be obtained thereon.

4. Assignors hereby authorize and request National Patent Offices to issue the above mentioned letters patents granted for National and Regional Phase Patent Applications derived from said PCT Application to said Assignee as the assignee of said inventions and the letters patent to be issued thereon for the sole use of Assignee, its successors, legal representatives and assigns.

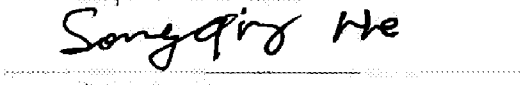
5. "I hereby grant Clark & Elbing LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark office for recordation of this document, including the power to insert on this assignment the application number and filing date of said application when known."

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

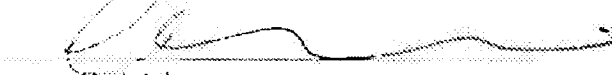
Date: 10/8/2012  
(mm/dd/yyyy)

Signature:   
Stephen Tomlinson

Date: 10/9/2012  
(mm/dd/yyyy)

Signature:   
Songqing He

Date: 10/8/2012  
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Carl Atkinson

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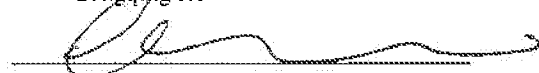
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