

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| PHILIP G. HAYDON | 01/14/2014 |
| JINBO LEE | 02/03/2014 |
| RECEIVING PARTY DATA | |
| Name: | TUFTS UNIVERSITY |
| Street Address: | 136 HARRISON AVENUE |
| City: | BOSTON |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02111 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14885773 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | LILY JIANG |
| SIGNATURE: | /Lily Jiang/ |
| DATE SIGNED: | 04/05/2016 |
| Total Attachments: 8 | |
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ASSIGNMENT

WHEREAS, we, Philip G. Haydon and Jinbo Lee, have invented a certain improvement in URIDINE DIPHOSPHATE DERIVATIVES, PRODRUGS, COMPOSITIONS AND METHODS FOR TREATING NEURODEGENERATIVE DISORDERS described in an application for Letters Patent of the United States, the specification of which:

- is being executed on even date herewith; and is about to be filed in the United States Patent Office;
- was filed on September 27, 2013 as Application No. 14/039,748
- was patented under U.S. Patent No. _____ on _____.

WHEREAS, Tufts University, (hereinafter "ASSIGNEE"), a non-profit educational institution organized and existing under the laws of the Commonwealth of Massachusetts, having principal offices at 136 Harrison Avenue, Boston, Massachusetts 02111 desires to acquire an 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, our 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 our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any substitution, reissue, continuation, divisional, and foreign counterparts thereof and including the right to claim priority under any applicable statute, treaty or convention based on said application; 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 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, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for 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;

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 substitution, reissue, divisional or continuation 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 the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

As the inventors, we each declare as follows:

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in the declaration set forth in this paragraph is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Inventor 
Phillip G. Haydon

Date: 1/14/14

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Witness 

Date: 1/14/14

Print Name: Shelley Antonio

Address 136 Harrison Avenue, Arnold 209
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Inventor Jinbo Lee Date: _____

Address 10 Orchard Crossing

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Witness _____ Date: _____

Print Name: _____

Address _____

ACKNOWLEDGEMENT OF ASSIGNEE:

I hereby acknowledge the foregoing executed Assignment on behalf of Tufts University.

By: Patricia L. Campbell
Name: Patricia L. Campbell

Date: 3-4-14

Title: Executive Vice President

ASSIGNMENT

WHEREAS, we, **Philip G. Haydon and Jinbo Lee**, have invented a certain improvement in **URIDINE DIPHOSPHATE DERIVATIVES, PRODRUGS, COMPOSITIONS AND METHODS FOR TREATING NEURODEGENERATIVE DISORDERS** described in an application for Letters Patent of the United States, the specification of which:

- is being executed on even date herewith; and is about to be filed in the United States Patent Office;
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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, our 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 our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any substitution, reissue, continuation, divisional, and foreign counterparts thereof and including the right to claim priority under any applicable statute, treaty or convention based on said application; 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 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, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for 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;

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 substitution, reissue, divisional or continuation 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 the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

As the inventors, we each declare as follows:

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Inventor _____ Date: _____
Philip G. Haydon

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Witness _____ Date: _____

Print Name: _____

Address _____

Inventor J. Lee
Jinbo Lee

Date: 2/3/2014

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Andover, MA 01810

Witness Amanda Schiappa

Date: 2/3/2014

Print Name: Amanda Schiappa

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Andover MA 01810

ACKNOWLEDGEMENT OF ASSIGNEE:

I hereby acknowledge the foregoing executed Assignment on behalf of **Tufts University**.

By: *Patricia L. Campbell*
Name: Patricia L. Campbell

Date: 3-4-14

Title: Executive Vice President