

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LUKE D. LAVIS	10/04/2016
JONATHAN B. GRIMM	10/04/2016
JIJI CHEN	10/04/2016
TIMOTHEE LIONNET	10/11/2016
ZHENGJIAN ZHANG	10/08/2016
ANDREY REVYAKIN	10/21/2016
JOEL SLAUGHTER	10/05/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HOWARD HUGHES MEDICAL INSTITUTE
<b>Street Address:</b>	4000 JONES BRIDGE ROAD
<b>City:</b>	CHEVY CHASE
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20815-6789
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16000614
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(502)587-6391
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<b>Phone:</b>	502-587-3400
<b>Email:</b>	spyles@stites.com
<b>Correspondent Name:</b>	STITES & HARBISON PLLC
<b>Address Line 1:</b>	400 W MARKET ST
<b>Address Line 2:</b>	SUITE 1800
<b>Address Line 4:</b>	LOUISVILLE, KENTUCKY 40202-3352
<b>ATTORNEY DOCKET NUMBER:</b>	18074N-14013-CON-2
<b>NAME OF SUBMITTER:</b>	SUSAN PYLES
<b>SIGNATURE:</b>	/susan pyles/
<b>DATE SIGNED:</b>	06/06/2018

PATENT

**Total Attachments: 8**

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**ASSIGNMENT OF INVENTION AND OF LETTERS PATENT**

WHEREAS, I, Luke D. Lavis, residing in Leesburg, Virginia, have invented certain improvements in AZETIDINE-SUBSTITUTED FLUORESCENT COMPOUNDS for which an application for Letters Patent of the United States of America has been filed on September 30, 2016, and assigned Application Serial Number 15/301,270;

WHEREAS, I, Jonathan B. Grimm, residing in Ashburn, Virginia, have invented certain improvements in AZETIDINE-SUBSTITUTED FLUORESCENT COMPOUNDS for which an application for Letters Patent of the United States of America has been filed on September 30, 2016, and assigned Application Serial Number 15/301,270;

WHEREAS, I, Jiji Chen, residing in Ellicott City, Maryland, have invented certain improvements in AZETIDINE-SUBSTITUTED FLUORESCENT COMPOUNDS for which an application for Letters Patent of the United States of America has been filed on September 30, 2016, and assigned Application Serial Number 15/301,270;

WHEREAS, I, Timothee Lionnet, residing in Sterling, Virginia, have invented certain improvements in AZETIDINE-SUBSTITUTED FLUORESCENT COMPOUNDS for which an application for Letters Patent of the United States of America has been filed on September 30, 2016, and assigned Application Serial Number 15/301,270;

WHEREAS, I, Zhengjian Zhang, residing in San Mateo, California, have invented certain improvements in AZETIDINE-SUBSTITUTED FLUORESCENT COMPOUNDS for which an application for Letters Patent of the United States of America has been filed on September 30, 2016, and assigned Application Serial Number 15/301,270;

WHEREAS, I, Andrey Revyakin, residing in Leicester, United Kingdom, have invented certain improvements in AZETIDINE-SUBSTITUTED FLUORESCENT COMPOUNDS for which an application for Letters Patent of the United States of America has been filed on September 30, 2016, and assigned Application Serial Number 15/301,270;

WHEREAS, I, Joel Slaughter, residing in Medford, Oregon, have invented certain improvements in AZETIDINE-SUBSTITUTED FLUORESCENT COMPOUNDS for which an application for Letters Patent of the United States of America has been filed on September 30, 2016, and assigned Application Serial Number 15/301,270; and

WHEREAS, at such time as the undersigned made the invention, they were under an obligation to assign rights to the Howard Hughes Medical Institute, 4000 Jones Bridge Road, Chevy Chase, MD 20815-6789.

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned have sold, assigned, and transferred, and by these presents do sell, assign, and transfer to Howard Hughes Medical Institute, its heirs, successors, legal representatives, and assigns (hereinafter designated as the Assignee) the entire right, title, and interest of the undersigned in and to said invention, said application, and in and to any Letters Patent(s) that may be granted therefor in the United States of America, its territories, dependencies, and possessions, and in any and all foreign countries, including rights of priority under the International Convention of Paris (1883) as amended; and to any and all utility applications claiming priority thereto and any and all divisions, reissues, continuations, continuation-in-parts, conversions, and extensions thereof for the full term or terms for which the same may be granted in the United States of America or any foreign country.

The undersigned agree that the Assignee may apply for domestic and foreign Letters Patent on the invention, and agree to cooperate with the Assignee, and to execute without additional consideration any additional documents as deemed necessary by the Assignee to apply for or maintain patents or other legal protection for the invention in any country of the world.

The undersigned agree to execute all papers necessary in connection with this application and any divisions, reissues, continuations, continuation-in-parts, conversions and extensions thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

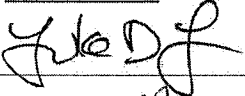

The undersigned agree to execute all papers necessary in connection with any interference which may be declared concerning this application or divisions, reissues, continuations, continuation-in-parts, conversions and extensions thereof or Letters Patent or reissue patent issued thereon and to cooperate with the Assignee in obtaining and producing evidence and proceeding with such interference.

The undersigned agree to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned hereby authorize and request the officials of the U. S. Patent and Trademark Office and in any foreign countries to issue any and all Letters Patent resulting from said application or any divisions, reissues, continuations, continuation-in-parts, conversions and extensions thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has not executed, and will not execute, any agreement in conflict herewith.

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

The undersigned also grants the law firm of Stites & Harbison, PLLC 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 U.S. Patent and Trademark Office for recordation of this document, including serial numbers and filing dates above.

<u>NAME</u>	<u>SIGNATURE</u>	<u>DATE</u>
Luke D. Lavis		10/4/16
Jonathan B. Grimm		10/4/16
Jiji Chen		

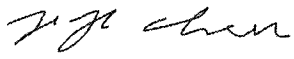
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<u>NAME</u>	<u>SIGNATURE</u>	<u>DATE</u>
Luke D. Lavis	_____	_____
Jonathan B. Grimm	_____	_____
Jiji Chen		10/04/2016

Timothee Lionnet

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10/11/2016

Zengjian Zhang

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Andrey Revyakin

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Joel Slaughter

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Timothee Lionnet

Zhengjian Zhang

~~Zengjian Zhang~~

*Zhengjian Zhang*

10/8/2016

Andrey Revyakin

Joel Slaughter



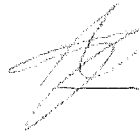
Timothee Lionnet

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Zengjian Zhang

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Andrey Revyakin

 / Andrey Revyakin

OCT 21, 2016

Joel Slaughter

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Timothee Lionnet

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Zengjian Zhang

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Andrey Revyakin

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Joel Slaughter



10-5-16