

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT5669189

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|---|----------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                   |
| <b>NATURE OF CONVEYANCE:</b>  | NUNC PRO TUNC ASSIGNMENT         |
| <b>EFFECTIVE DATE:</b>  | 07/31/2015                       |
| <b>CONVEYING PARTY DATA</b>   |                                  |
| <b>Name</b>   | <b>Execution Date</b>            |
| XUHANG LI   | 01/14/2019                       |
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| <b>PROPERTY NUMBERS Total: 1</b>  |                                  |
| <b>Property Type</b>  | <b>Number</b>                    |
| <b>Application Number:</b>  | 16540985                         |
| <b>CORRESPONDENCE DATA</b>  |                                  |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | MDR-16-1107WO-US-CIP-CON         |
| <b>NAME OF SUBMITTER:</b>   | WILLIAM L. BARTOW                |
| <b>SIGNATURE:</b>   | /williamlbartow/                 |
| <b>DATE SIGNED:</b>   | 08/14/2019                       |
| <b>Total Attachments: 3</b>   |                                  |
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| source=MDR_16_1107WO_US_CIP_CON_Assignment_1_Li_to_JHU#page2.tif  |                                  |
| source=MDR_16_1107WO_US_CIP_CON_Assignment_1_Li_to_JHU#page3.tif  |                                  |

## CONFIRMATORY PATENT ASSIGNMENT

This **Confirmatory Patent Assignment Agreement** ("Confirmatory Assignment") is made as of the signature date, and effective *nunc pro tunc* as of July 31, 2015 (the "Effective Date"), by Xuhang Li, an individual ("Li").

**WHEREAS**, as set forth below, Li wishes to confirm the transfer and assignment of the patents and patent applications set forth on Exhibit A attached hereto, along with all divisionals, continuations, continuations-in-part, extensions, reexaminations and reissues relating thereto, and any applications filed in foreign countries (collectively, the "Assigned Patents") to The Johns Hopkins University, a Maryland corporation ("JHU").

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by Li, Li hereby confirms that:

1. Effective *nunc pro tunc* as of the Effective Date, Li does hereby confirm that Li assigned to JHU, and to the extent not previously assigned, does hereby assign to JHU all of Li's right, title, and interest in and to the Assigned Patents, including the right to sue for and the remedies resulting from past, present and future infringement of the foregoing, and all rights of protection of interest therein under the laws of all jurisdictions, as fully and entirely as the same would have been held and enjoyed by Li if the assignment had not been made, including all right, title and interest in and to all income, proceeds, royalties, damages, claims and payments which accrue, or have accrued, prior to and as of the effective date or thereafter and are due or payable with respect thereto, and in and to all causes of action, either at law or in equity for any past, present or future infringement, of the Assigned Patents, or other violation or unauthorized use of the Assigned Patents, with the right to sue for, and collect the same (the "Foregoing Rights"). Li also does hereby confirm that JHU subsequently assigned the Assigned Patents and the Foregoing Rights back to Li pursuant to that certain Assignment of Rights Agreement between Li and JHU, effective as of March 1, 2016.

2. Li authorizes and requests the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all Assigned Patents pursuant to this Confirmatory Assignment.

3. Li acknowledges and agrees that certain documents may need to be executed and delivered by Li to effectuate transfer of title to the Assigned Patents under this Confirmatory Assignment. Li agrees to take all further actions, and provide all such cooperation and assistance (including, without limitation, the execution and delivery of any affidavits, declarations, oaths, exhibits, assignments, powers of attorney or other documentation) to more fully and effectively effectuate the purposes of this Confirmatory Assignment.

***[Remainder of page intentionally left blank.  
Signature page follows.]***

IN WITNESS WHEREOF, Li has executed this Confirmatory Assignment effective as of the Effective Date.

XUHANG LI

By: 

Name: XUHANG LI

Its: 1/14/2019

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PATENT  
REEL: 050056 FRAME: 0578

**Exhibit A**

| <b>TITLE</b>   | <b>COUNTRY</b> | <b>APPLICATION NO.</b> | <b>FILING DATE</b> | <b>REG. NO.</b> | <b>REG. DATE</b> | <b>STATUS</b> |
|--|----------------|------------------------|--------------------|-----------------|------------------|---------------|
| Compositions and methods for treating inflammatory bowel disease | UNITED STATES  | 14/814,988             | 7/31/2015          | n/a             | n/a              | Pending       |

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RECORDED: 08/14/2019

**PATENT**  
**REEL: 050056 FRAME: 0579**