

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MARC K. HELLERSTEIN | 03/05/2013 |
| RECEIVING PARTY DATA | |
| Name: | THE REGENTS OF THE UNIVERSITY OF CALIFORNIA |
| Street Address: | 1111 FRANKLIN STREET, 12TH FLOOR |
| City: | OAKLAND |
| State/Country: | CALIFORNIA |
| Postal Code: | 94607-5200 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15681009 |
| CORRESPONDENCE DATA | |
| Fax Number: | (415)268-7522 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 415-268-6642 |
| Email: | mheyman@mofo.com |
| Correspondent Name: | PATRICIA TSAO |
| Address Line 1: | MORRISON & FOERSTER LLP |
| Address Line 2: | 425 MARKET STREET |
| Address Line 4: | SAN FRANCISCO, CALIFORNIA 94105 |
| ATTORNEY DOCKET NUMBER: | 416272006706 |
| NAME OF SUBMITTER: | PATRICIA TSAO |
| SIGNATURE: | /Patricia Tsao/ |
| DATE SIGNED: | 08/18/2017 |
| Total Attachments: 2 | |
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ASSIGNMENT

This assignment is by:

1. Marc K. HELLERSTEIN
4 Anson Way
Kensington, California 94708

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

This Assignment is to:

Assignee: The Regents of the University of California
Address: 1111 Franklin Street, 12th Floor, Oakland, California 94607-5200
A corporation duly organized under and pursuant to the laws of: California

(referred to in this Assignment as "Assignee"), who desire to acquire the entire right, title and interest in said inventions and said application for letters patent of the United States, and in any United States or foreign, letters patent or patents, to be obtained therefor and thereon.

Assignor has invented certain new and useful inventions in:

MOLECULAR FLUX RATES THROUGH CRITICAL PATHWAYS MEASURED BY STABLE ISOTOPE LABELING IN VIVO, AS BIOMARKERS OF DRUG ACTION AND DISEASE ACTIVITY

for which Assignors have filed an application for patent in the United States of America concurrently herewith. Where this Assignment is not filed concurrently with the application, the following identifying information may be added after execution:

Serial No.: 13/781,505

Filing Date: February 28, 2013

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

1. Assignor hereby sells, assigns, transfers and sets over, to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, 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, 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 Assignor, had this sale and assignment not been made.
2. Assignor represents, warrants and covenants that, at the time of execution and delivery of this agreement, Assignor is the sole and lawful owner of the entire right, title and interest in and to said inventions and said application for letters patent, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth in this agreement.
3. Assignor 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, or said application for letters patent; (b) letters patent for said inventions in any country, including any reissue, re-examination or extension of or interference

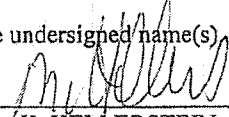
proceedings; or (c) any provisional, division, continuation, continuation-in-part, or substitutions of any application for letters patent or any reissues, re-examinations, extensions or interference proceedings involving any letters patent, to be obtained thereon. To be clear, for purposes of this paragraph, "desirable" shall include, without limitation, any act necessary or useful in connection with United States laws and/or international conventions.

4. Assignor hereby authorizes and requests the Commissioner of Patents in the United States to issue the above mentioned letters patents of the United States to 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 Assignee's attorneys, all of Morrison & Foerster 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: 03/05/13

Signature: 

Marc K. HELLERSTEIN