

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| PAUL BLAINEY | 08/02/2017 |
| RECEIVING PARTY DATA | |
| Name: | THE BROAD INSTITUTE, INC. |
| Street Address: | 415 MAIN STREET |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02142 |
| Name: | MASSACHUSETTS INSTITUTE OF TECHNOLOGY |
| Street Address: | 77 MASSACHUSETTS AVENUE |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02139 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15087684 |
| CORRESPONDENCE DATA | |
| Fax Number: | (617)310-6001 |
| <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: | 617-310-6224 |
| Email: | BOSIPMail@gtlaw.com |
| Correspondent Name: | MELISSA HUNTER-ENSOR, PH.D. |
| Address Line 1: | ONE INTERNATIONAL PLACE |
| Address Line 2: | GREENBERG TRAURIG, LLP |
| Address Line 4: | BOSTON, MASSACHUSETTS 02110 |
| ATTORNEY DOCKET NUMBER: | 167741.011704 |
| NAME OF SUBMITTER: | MELISSA HUNTER-ENSOR, PH.D. |
| SIGNATURE: | /MELISSA HUNTER-ENSOR, PH.D./ |
| DATE SIGNED: | 08/16/2017 |

Total Attachments: 4

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ASSIGNMENT BY INVENTOR(S)

THIS ASSIGNMENT, made this 2 day of August, 2017, by Paul Blainey, (hereinafter referred to as Assignor(s)), c/o The Broad Institute, Inc., 415 Main Street, Cambridge, MA 02142 and Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139;

WHEREAS, Assignor(s) have invented certain new and useful improvements in "SIEVE VALVES, MICROFLUIDIC CIRCUITS, MICROFLUIDIC DEVICES, KITS, AND METHODS FOR ISOLATING AN ANALYTE," as set forth in an application for Letters Patent of the United States already filed on March 31, 2016, as U.S. Patent Application No.: 15/087,684, designating the United States which is a Continuation-in-Part of PCT/US2014/058637, filed on October 1, 2014, which claims the benefit of United States Provisional Application Nos. 61/885,257, filed on October 1, 2013, 61/940,324, filed on February 14, 2014, and 62/043,330, filed on August 28, 2014; respectively, and

WHEREAS, The Broad Institute, Inc., an organization organized under and pursuant to the laws of Massachusetts having a principal place of business at 415 Main Street, Cambridge, MA 02142 and Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139, (hereinafter referred to as Assignees), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, Assignor(s) have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, their successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same

to be held and enjoyed by Assignees, for their own use and benefit and the use and benefit of their successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor(s), had this sale and assignment not been made.

AND for the same consideration, Assignor(s) hereby represent and warrant to Assignees, their successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignees under law or that have already been transferred to Assignees, Assignor(s) are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above- mentioned, and that the same are unencumbered and that Assignor(s) have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignor(s) hereby covenant and agree to and with Assignees, their successors, legal representatives and assigns, that Assignor(s) will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignees, their successors, legal representatives and assigns, whenever counsel of Assignees, or counsel of their successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Provisional application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignor(s) hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignees, as Assignees of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignees, their successors, legal representatives and assigns.

AND Assignor(s) hereby grant the following individuals 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:

GREENBERG TRAURIG, LLP

All practitioners at Customer Number 35893

AND Assignor(s) acknowledge an obligation of assignment of this invention to Assignees at the time the invention was made.

Date: 8/2/2017 Paul Blainey
Paul Blainey

IN TESTIMONY WHEREOF, the Assignor(s) have signed their names on the dates indicated.

Date: 8/2/17

Witness: Marcus

Date: 8/2/17

Witness: Francis J. McCarthy