

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| THE UAB RESEARCH FOUNDATION | 08/09/2017 |
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| Property Type | Number |
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| DATE SIGNED: | 07/25/2018 |
| Total Attachments: 3 | |
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ASSIGNMENT
(U.S. Patents and Patent Applications)

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|-----------------------------|---|
| Patents/Patent Applications | 1. U.S. Patent No. 9,139,629 issued September 22, 2015 (U0012-301045) 2. U.S. Patent No. 9,475,850 issued October 25, 2016 (U0012-301033) 3. U.S. Patent Application No. 14/855,060 filed September 15, 2015 (U0012-301079) |
| Assignee | Sumant S. Chugh |

The UAB Research Foundation, a corporation of the State of Alabama, having a principal place of business at 701 20th Street South, AB Suite 770, Birmingham, AL 35233 ("UABRF"), owns all right, title and interest in the above referenced patent applications and patents.

For valuable consideration, UABRF:

1. agrees to assign, hereby assigns, and has assigned to the Assignee, the entire right, title, and interest in and to:
 - (a) the above-referenced patent applications, the right to claim priority to the above-referenced patent application(s), all applications based in whole or in part upon the above-referenced patent application(s), including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent application or application for other rights based in whole or in part on the above-referenced patent application(s);
 - (b) all patents (including, without limitation, all patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to, any and all applications described in (a) of this paragraph, including the patent(s), if any, referenced above; and
 - (c) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a) or (b) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.
2. authorizes and requests the U.S. Patent and Trademark Office or any other agency to issue to the Assignee any and all patents, or other rights or documents, resulting from the patent applications and patents described in Section 1 of this Assignment;
3. agrees to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent applications described in Section 1 of this Assignment and the enforcement of patents or other rights resulting from such patent applications;
4. agrees that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, his successors, assigns and other legal representatives, and shall be binding upon UABRF, as well as its successors and assigns; and
5. promises and affirms that it has not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.

Signature: Kathy Nugent
Kathy Nugent, Ph.D.
Executive Director, UAB Research Foundation

Date: 8/9/17

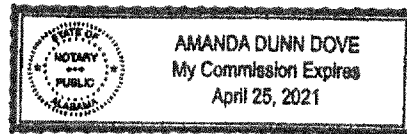
STATE OF ALABAMA
JEFFERSON COUNTY

I, Amanda Dunn Dove, a Notary Public in and for said County in said State, hereby certify that Kathy Nugent, Ph.D., whose name as Executive Director of the UAB Research Foundation, a corporation, is signed to the foregoing Assignment, and who is known to me, acknowledged before me on this day that, being informed of the contents of the Assignment, she, as such officer and with full authority, executed the same voluntarily for and as the act of said corporation.

Given under my hand this the 9th day of August, 2017.

(Seal)

Amanda Dunn Dove
NOTARY PUBLIC
My Commission Expires:



Assignee hereby acknowledges receipt of the entire right, title, and interest in and to the patent applications and rights referenced in Section 1 above and which are owned by UABRF.

Signature: Sumant S. Chugh
Name: Sumant S. Chugh

Date: 7/24/17

Witness: Lionel C. Clement
Name:

Date: 07/24/17