PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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NELE VAN DESSEL	05/10/2016

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15503380

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ATTORNEY DOCKET NUMBER:	3724.011US1	
NAME OF SUBMITTER:	KASIE A. BOSMA	
SIGNATURE:	/Kasie A. Bosma/	
DATE SIGNED:	05/11/2017	

Total Attachments: 4

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PATENT 504362629 REEL: 042340 FRAME: 0443

RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 3724.011US1 Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: University of Massachusetts Neil S. Forbes, Nele Van Dessel Street Address: Office of General Counsel Additional name(s) of conveying party(ies) attached? One Beacon Street, 31st Floor City: Boston State: MA Zip: 02108 []Yes [X]No Country: <u>United States of America</u> 3. Nature of conveyance: Additional name(s) & address(es) attached? []Yes [X]No [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: May 10, 2016, May 10, 2016 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 15/503,380 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: Monique M. Perdok []Enclosed []Authorized to be charged to deposit account 19-Address: 0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 Please charge any additional fees or credit any over Minneapolis, MN 55402--0938 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. May 9, 2017 Monique M. Perdok/Reg. No. 42 Name of Person Signing Date Total number of pages including cover sheet: 4 Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450 UMass ref. no. UMA 15-004; Forbes, Neil S; Amherst (atty. Ref. no.3724.011WO1)

DECLARATION AND ASSIGNMENT

Title of Invention: TARGETING EPIGENETIC REGULATORS USING A BACTERIAL DELIVERY SYSTEM As a below named inventor, I hereby declare that:
This declaration is directed to:

PCT application number PCT/US2015/044831

The above-identified application was made or authorized to be made by me, and I have reviewed and understand the contents of the application, including the claims.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION");

Whereas, University of Massachusetts, having a business address at Office of General Counsel, 225 Franklin Street, 12th Floor, Boston, MA 02110 (herein referred to as "ASSIGNEE"), desires to attain or has attained, and each undersigned inventor desires to grant or has granted to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I, one of the undersigned inventors (herein referred to "ASSIGNOR"), hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in any and all countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents, and further including any right to sue for past infringement. In addition, I hereby authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and I agree to execute any and all documents, oaths and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

I also hereby grant ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Declaration and Assignment any further identification of the APPLICATION (including, but not limited to, patent Application Number and filing date).

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

PATENT REEL: 042340 FRAME: 0445

Signature	<u> </u>	·	Date:	5/10/16		
Ne	il S. Forbes					
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Printed Name	: Vishnu	Raman	Printed Na	1	Valued Farence	

Date: 5/10/16 Date: 05-10-16

UMass ref. no. UMA 15-004; Forbes, Neil S; Amherst (atty. Ref. no.3724.011WO1)

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Signature Nele Van Dessel	Date:
Witness: James A Tangent	Witness: Amalia Casa
Printed Name: Names Farmer	Printed Name: AMRITA BASU
Date: <u>05-10-2016</u>	Date: 05-10-2016

UMass ref. no. UMA 15-004; Forbes, Neil S; Amherst (atty. Ref. no.3724.011WO1)

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