502150805 12/05/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
William R. Jacobs	11/19/2012

RECEIVING PARTY DATA

Name:	Howard Hughes Medical Institute	
Street Address:	4000 Jones Bridge Road	
City:	Chevy Chase	
State/Country:	MARYLAND	
Postal Code:	20815	

PROPERTY NUMBERS Total: 2

Property Type	Number
PCT Number:	US2012061059
Application Number:	61550094

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	Brian J. Amos

Total Attachments: 2

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> **PATENT** REEL: 029407 FRAME: 0514

Docket No. 96700/1899 PCT International Patent Application No. PCT/US12/61059

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNORS:

(1) Full Name of Inventor: William R. Jacobs

Residence: 47 Iden Avenue, Pelham, NY 10803

Citizenship: US

hereby sells, assigns, and transfers to ASSIGNEE:

Howard Hughes Medical Institute 4000 Jones Bridge Road Chevy Chase, MD 20815

and the successors, assigns, and legal representatives of the ASSIGNEE, the entire right, title, and interest for the United States and its territorial possessions, and in all foreign countries and regions, including all rights to claim priority, in and to the invention entitled:

RECOMBINANT MYCOBACTERIOPHAGES FOR DELIVERY OF NUCLEIC ACIDS OF INTEREST INTO MYCOBACTERIA

that was invented by ASSIGNOR, and which is found in U.S. Provisional Patent Application No. 61/550,094, filed on October 21, 2011, and in PCT International Patent Application No. PCT/US12/61059 filed on October 19, 2012, and any legal equivalent thereof in a foreign country or region, including the right to claim priority, including any and all improvements disclosed therein, and in and to all Letters Patent to be obtained for said invention by the above application, or any continuation, divisional, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement, or encumbrance has been, or will be, made or entered into which would conflict with this Assignment.

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PATENT REEL: 029407 FRAME: 0515 ASSIGNOR authorizes ASSIGNEE to make applications for, and to receive, Letters Patent for said invention in any of said countries or regions, in ASSIGNEE's name, or in ASSIGNOR'S name, at ASSIGNEE's election.

ASSIGNOR covenants and agrees to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of ASSIGNEE, deliver any testimony in any interference, litigation, or proceeding related thereto, and to execute all papers that may be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of ASSIGNEE, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to ASSIGNEE, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns, or other legal representatives.

ASSIGNOR authorizes and requests the Commissioner of Patents to issue any and all Letters Patent of the United States for said invention, resulting from the aforesaid application, to said Albert Einstein College of Medicine of Yeshiva University, as the ASSIGNEE.

WITNESS my hand and seal on:

William R. Vacobs

11/19/12 Date

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PATENT REEL: 029407 FRAME: 0516