

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
WILLIAM R. JACOBS		10/10/2013
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: 1		
Property Type	Number	
PCT Number:	US1340559	
CORRESPONDENCE DATA		
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>		
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ATTORNEY DOCKET NUMBER:	96700-2004	
NAME OF SUBMITTER:	BRIAN J. AMOS	
Signature:	/Brian J. Amos/	
Date:	10/17/2013	
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif		

CH \$40.00 US1340559

ASSIGNMENT OF INVENTION

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

ASSIGNOR:

(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, Maryland 20815-6789
U.S.A.

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:

MYCOBACTERIUM TUBERCULOSIS DeltaESX-3 MUTANTS

that was invented by ASSIGNOR, and which is found in PCT International Patent Application No. PCT/US2013/40559, filed May 10, 2013, 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.

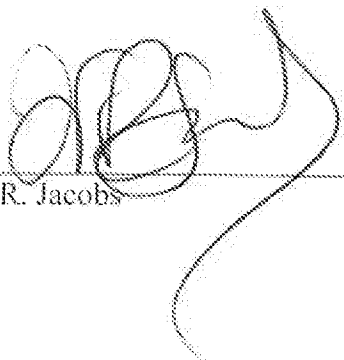
ASSIGNOR hereby covenants that no assignment, sale, agreement, or encumbrance has been, or will be, made or entered into which would conflict with this Assignment.

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 Howard Hughes Medical Institute, as the ASSIGNEE.

WITNESS my hand and seal on:



William R. Jacobs

10/10/13

Date