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William R. Jacobs, Jr.

Execution Date
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Patent Application Number(s)

09/350,048

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

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Craig J. Arnold

Name of Person Signing



Signature

November 1, 2000

Date

ASSIGNMENT

WHEREAS, William R. Jacobs, Jr. (hereinafter "the Assignor"), a citizen of the United States of America residing at 163 Fordham Street, City Island, New York 10464, together with co-inventor Stoyan S. Bardarov, has invented certain new and useful improvements in ONE STEP ALLELIC EXCHANGE IN MYCOBACTERIA USING IN VITRO GENERATED CONDITIONAL TRANSDUCING PHAGES, for which an application for United States Letters Patent was filed on July 8, 1999 and assigned U.S. Serial No. 09/350,048; and

WHEREAS, Howard Hughes Medical Institute, (hereinafter "the Assignee"), a corporation organized under the laws of the State of Maryland, having a principal place of business at 4000 Jones Bridge Road, Chevy Chase, Maryland 20815-6789 is desirous of acquiring the entire right, title and interest in and to said application and the invention described therein, and each and every patent that can be issued on said application and on said invention in the United States of America and in its territories and possessions, and in all countries foreign to the United States of America;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the Assignee the full and exclusive right, title and interest in and to the aforesaid application, the aforesaid invention, and each and every patent that may be issued on the aforesaid

invention and application in the United States of America, and in its territories and possessions and also in all countries foreign to the United States of America, the same to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives to the end of the term or terms for which a patent or patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.


Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent on the aforesaid invention or resulting from the aforesaid application directly to the Assignee.

Assignor hereby authorizes the Assignee and its successors to apply for a patent or patents directly in its own name upon the aforesaid invention wherever the same is permitted by law, and also assigns, sells, transfers and sets over unto the Assignee and its successors all priority rights under the aforesaid application.

Assignor further covenants to execute all additional instruments and to do all things necessary to carry out the purpose of this instrument, at the expense of the Assignee and its successors.

IN WITNESS WHEREOF, Assignor has hereunto set his hand and affixed his seal

this ^{23RD} day of SEPT., 1999.


William R. Jacobs, Jr.

STATE OF *NEW YORK*
COUNTY OF *Bronx*) ss.:

On this ^{23RD} day of SEPT., 1999, before me came William R. Jacobs, Jr., to me known and known to me to be the individual described in, and who executed the foregoing instrument, and he acknowledged to me that he had executed the same.


Notary Public

IMMA CONTI
Notary Public, State of New York
No. 03-4943451
Qualified in Bronx County
Commission Expires *10/24/2000*