

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>George C. Stewart</td> <td>07/21/2011</td> </tr> <tr> <td>Brian M. Thompson</td> <td>06/30/2011</td> </tr> </tbody> </table>	Name	Execution Date	George C. Stewart	07/21/2011	Brian M. Thompson	06/30/2011	
Name	Execution Date						
George C. Stewart	07/21/2011						
Brian M. Thompson	06/30/2011						
RECEIVING PARTY DATA							
Name:	The Curators of the University of Missouri						
Street Address:	316 University Hall						
City:	Columbia						
State/Country:	MISSOURI						
Postal Code:	65211						
PROPERTY NUMBERS Total: 1							
Property Type	Number						
Application Number:	12391060						
CORRESPONDENCE DATA							
Fax Number:	3142314342						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	314-345-7000						
Email:	uspatents@senniger.com						
Correspondent Name:	Senniger Powers LLP						
Address Line 1:	100 North Broadway, 17th Floor						
Address Line 4:	St. Louis, MISSOURI 63102						
ATTORNEY DOCKET NUMBER:	UMO 3001.US						
NAME OF SUBMITTER:	Elizabeth E. Millard, Ph.D.						
Total Attachments: 6 source=01940438#page1.tif source=01940438#page2.tif source=01940438#page3.tif source=01940438#page4.tif source=01940438#page5.tif source=01940438#page6.tif							

OP \$40.00 12391060

ASSIGNMENT

WHEREAS, **George C. Stewart**, an individual, a citizen of the United States of America, having a mailing address of 4902 Silver Cliff Drive, Columbia, Missouri 65203 ("Assignor"), has contributed to the invention of subject matter related to and, all or a portion of which, is disclosed, described and/or claimed in UM Invention Disclosure No. 07UMC085 entitled "Antigen Expression on the surface of spores of *Bacillus anthracis* – novel vaccine strategy against anthrax and biothreat agents" for which a patent application(s) was filed on the 22nd day of February, 2008, and assigned Application No. 61/066,801 and filed on the 23rd day of February, 2009, and assigned Application No. 12/391,060 and filed the 18th day of April, 2011, and assigned Application No. 13/089,015 entitled "Bacillus Based Delivery System and Methods of Use" ("Application");

WHEREAS, **The Curators of the University of Missouri**, a public corporation of the State of Missouri having a principal place of business at 316 University Hall, Columbia, Missouri 65211, U.S.A. ("Assignee"), is desirous of acquiring Assignor's entire right, title and interest in and to said subject matter including rights to any and all invention(s), said Application, and any and all Letters Patent that might be granted upon or otherwise stem therefrom; and

WHEREAS, pursuant to Assignor's assignment obligations under the Collected Rules and Regulations § 100.020, Assignor desires to convey any and all rights that Assignor has or might have in the aforementioned subject matter, invention(s), said Application and said Letters Patent to Assignee and Assignor requests that any ambiguities in this document be construed in favor of such conveyance.

NOW, THEREFORE, to all whom it may concern, be it known that, in consideration of Assignor's past and continued employment with and use of Assignee's funds and facilities, Assignor's assignment obligations and royalty-sharing rights under the Collected Rules and Regulations § 100.020, the sum of \$1.00 in-hand paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby assigns, transfers and conveys (or confirms any prior such conveyance as the case may be) to Assignee, Assignor's entire right, title and interest within the United States, its territories and

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possessions, and all foreign countries, in and to: said subject matter, said invention(s) and any and all improvements thereto, said Application, and any and all Letters Patent that may be granted therefor in any country; any and all derivative or continuing applications including any and all divisionals, continuations, continuations-in-part, extensions, renewals, and reissues thereof; any and all applications for patents or similar legal protection that may hereafter be filed for said invention(s) in any country; all patents or similar legal protection that may be granted for said in any country and all extensions, renewals and reissues thereof or legal equivalent thereof.

Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office, and any official of any other country whose duty it is to issue patents or similar legal protection on said invention(s), to issue patents or similar legal protection for said invention(s) to Assignee, the same to be held by Assignee for its own use and benefit, to the full end of the term for which said patents or similar legal protection are or may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment not been made.

Assignor hereby further agrees, upon the request of Assignee, to execute any and all applications for divisionals, continuations and/or continuations-in-part for said invention(s) or improvements thereto and any supplemental oath or declaration relating thereto, and any applications for the reissue or extension of any patent that may be granted upon said Application that Assignee may deem necessary or expedient. Assignor agrees to supply Assignee with all information that may be material to the patentability of said invention(s) and to cooperate with Assignee and its representatives in preparing arguments in support of patentability. Assignor further agrees that, in the event said invention(s), said Application or any patents issued thereon becomes involved in an interference, upon request of Assignee, Assignor will cooperate to the best of its ability with Assignee in preparing the preliminary statement and giving and producing evidence in support thereof. Assignor also agrees that, in the event any patent issued from said invention(s) or said Application becomes involved in litigation, upon request of Assignee, Assignor will cooperate to the best of its ability with Assignee in producing evidence in support thereof. Assignor hereby agrees to perform, upon such request, any and all affirmative acts to obtain said patents or similar legal protection, and vest all rights therein in Assignee as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment had not

ASSIGNMENT

been made. Assignor hereby irrevocably appoints the President of Assignee, or the President's designee, as Assignor's attorney-in-fact with authority to execute for Assignor and on Assignor's behalf any and all assignments, applications, or other instruments and documents required to be executed by Assignor pursuant to this Agreement, if Assignor is unwilling or unable to execute same.

Assignor hereby covenants and warrants that: Assignor believes Assignor to be an original and first inventor of said invention(s); Assignor has the full right and power to convey the rights previously mentioned in said subject matter, said invention(s), said Application, and any Letters Patent issuing therefrom to Assignee; and Assignor has not executed and will not execute any other agreement that purports to assign such rights and/or one that is in conflict herewith.

IN WITNESS WHEREOF, Assignor has executed this Assignment Agreement as of the day and year written below.

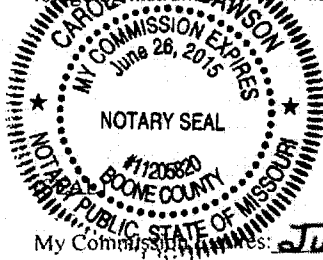
ASSIGNOR

George C Stewart
Signature

7/21/11
Date

STATE OF Missouri)
COUNTY OF Boone) SS

On this 21 day of July, 2011, before me, a Notary Public in and for the State and County aforesaid, personally appeared George C. Stewart to me known and known to me to be the person of that name who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.



Carolyn Kay Dawson
Notary Public

My Commission Expires: June 26, 2015

ASSIGNMENT

WHEREAS, **Brian M. Thompson**, an individual, a citizen of the United States of America, having a mailing address of 1509 Saint Christopher St., Columbia, Missouri 65203 ("Assignor"), has contributed to the invention of subject matter related to and, all or a portion of which, is disclosed, described and/or claimed in UM Invention Disclosure No. 07UMC085 entitled "Antigen Expression on the surface of spores of *Bacillus anthracis* – novel vaccine strategy against anthrax and biothreat agents" for which a patent application(s) was filed on the 22nd day of February, 2008, and assigned Application No. 61/066,801 and filed on the 23rd day of February, 2009, and assigned Application No. 12/391,060 and filed the 18th day of April, 2011, and assigned Application No. 13/089,015 entitled "Bacillus Based Delivery System and Methods of Use" ("Application");

WHEREAS, **The Curators of the University of Missouri**, a public corporation of the State of Missouri having a principal place of business at 316 University Hall, Columbia, Missouri 65211, U.S.A. ("Assignee"), is desirous of acquiring Assignor's entire right, title and interest in and to said subject matter including rights to any and all invention(s), said Application, and any and all Letters Patent that might be granted upon or otherwise stem therefrom; and

WHEREAS, pursuant to Assignor's assignment obligations under the Collected Rules and Regulations § 100.020, Assignor desires to convey any and all rights that Assignor has or might have in the aforementioned subject matter, invention(s), said Application and said Letters Patent to Assignee and Assignor requests that any ambiguities in this document be construed in favor of such conveyance.

NOW, THEREFORE, to all whom it may concern, be it known that, in consideration of Assignor's past and continued employment with and use of Assignee's funds and facilities, Assignor's assignment obligations and royalty-sharing rights under the Collected Rules and Regulations § 100.020, the sum of \$1.00 in-hand paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby assigns, transfers and conveys (or confirms any prior such conveyance as the case may be) to Assignee, Assignor's entire right, title and interest within the United States, its territories and

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possessions, and all foreign countries, in and to: said subject matter, said invention(s) and any and all improvements thereto, said Application, and any and all Letters Patent that may be granted therefor in any country; any and all derivative or continuing applications including any and all divisionals, continuations, continuations-in-part, extensions, renewals, and reissues thereof; any and all applications for patents or similar legal protection that may hereafter be filed for said invention(s) in any country; all patents or similar legal protection that may be granted for said in any country and all extensions, renewals and reissues thereof or legal equivalent thereof.

Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office, and any official of any other country whose duty it is to issue patents or similar legal protection on said invention(s), to issue patents or similar legal protection for said invention(s) to Assignee, the same to be held by Assignee for its own use and benefit, to the full end of the term for which said patents or similar legal protection are or may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment not been made.

Assignor hereby further agrees, upon the request of Assignee, to execute any and all applications for divisionals, continuations and/or continuations-in-part for said invention(s) or improvements thereto and any supplemental oath or declaration relating thereto, and any applications for the reissue or extension of any patent that may be granted upon said Application that Assignee may deem necessary or expedient. Assignor agrees to supply Assignee with all information that may be material to the patentability of said invention(s) and to cooperate with Assignee and its representatives in preparing arguments in support of patentability. Assignor further agrees that, in the event said invention(s), said Application or any patents issued thereon becomes involved in an interference, upon request of Assignee, Assignor will cooperate to the best of its ability with Assignee in preparing the preliminary statement and giving and producing evidence in support thereof. Assignor also agrees that, in the event any patent issued from said invention(s) or said Application becomes involved in litigation, upon request of Assignee, Assignor will cooperate to the best of its ability with Assignee in producing evidence in support thereof. Assignor hereby agrees to perform, upon such request, any and all affirmative acts to obtain said patents or similar legal protection, and vest all rights therein in Assignee as fully and

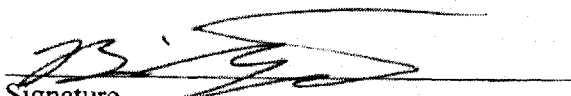
ASSIGNMENT

entirely as the same would have been held and enjoyed by Assignor if this assignment had not been made. Assignor hereby irrevocably appoints the President of Assignee, or the President's designee, as Assignor's attorney-in-fact with authority to execute for Assignor and on Assignor's behalf any and all assignments, applications, or other instruments and documents required to be executed by Assignor pursuant to this Agreement, if Assignor is unwilling or unable to execute same.

Assignor hereby covenants and warrants that: Assignor believes Assignor to be an original and first inventor of said invention(s); Assignor has the full right and power to convey the rights previously mentioned in said subject matter, said invention(s), said Application, and any Letters Patent issuing therefrom to Assignee; and Assignor has not executed and will not execute any other agreement that purports to assign such rights and/or one that is in conflict herewith.

IN WITNESS WHEREOF, Assignor has executed this Assignment Agreement as of the day and year written below.

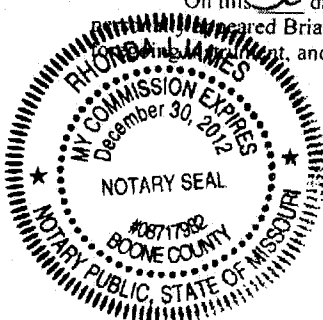
ASSIGNOR

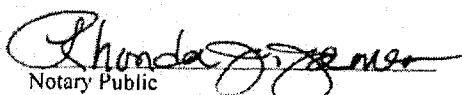

Signature

6/30/11
Date

STATE OF Missouri)
COUNTY OF Boone) SS

On this 30 day of June, 2011, before me, a Notary Public in and for the State and County aforesaid, appeared Brian M. Thompson to me known and known to me to be the person of that name who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.




Notary Public

My commission expires 12/30/2012
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