

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHOUSUN CHEN SZU	10/03/2003
ZUZANA KOSSACZKA	09/23/2003
JOHN B. ROBBINS	10/03/2003
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES
<b>Street Address:</b>	NATIONAL INSTITUTES OF HEALTH, OFFICE OF TECHNOLOGY TRANSFER
<b>Internal Address:</b>	SUITE 325, 6011 EXECUTIVE BOULEVARD
<b>City:</b>	ROCKVILLE
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20852
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14293745
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	4239-66480-03
<b>NAME OF SUBMITTER:</b>	KARRI KUENZLI BRADLEY
<b>SIGNATURE:</b>	/Karri Kuenzli Bradley/
<b>DATE SIGNED:</b>	07/09/2014
<b>Total Attachments: 6</b>	

PATENT

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**PATENT**

**REEL: 033276 FRAME: 0358**

### ASSIGNMENT

We, Shousun Chen Szu, of Bethesda, Maryland, a citizen of the United States of America, Zuzana Kossaczka, of Bethesda, Maryland, a citizen of Slovakia, and John B. Robbins, of Chevy Chase, Maryland, a citizen of the United States of America, have invented a certain invention entitled VIBRIO CHOLERAЕ 0139 CONJUGATE VACCINES for which the following patent applications have been filed:

PCT Application No. PCT/US00/24119 filed on September 1, 2000; and  
U.S. Application No. 10/363,618 filed on March 3, 2003;

both of which applications are collectively referred to herein as "the patent applications."

We were employed by the Department of Health and Human Services at the time the invention was made. The conditions under which said invention was made are such as to entitle the Government of the United States of America under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest in the invention, in the United States and all other countries throughout the world.

In consideration of our obligations under Executive Order 10096, and other valuable consideration, we the undersigned, have sold, assigned, and transferred and do sell, assign, and transfer to The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services (hereinafter THE GOVERNMENT), and successors and assigns, the full and exclusive right, title, and interest in the patent applications and invention throughout the United States of America, its territories and dependencies, and all other countries. This includes an assignment of all Letters Patent that may be granted on the invention in the United States of America and all countries throughout the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof; and the right to claim priority from the patent applications as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

We authorize and request the issuance of said Letters Patent to THE GOVERNMENT as assignee of the entire right, title, and interest to be held as fully and entirely as the same would have been held by us had this assignment not been made.

We warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of the present assignment.

We also agree upon reasonable request to communicate to THE GOVERNMENT, its representatives, assigns or agents, any facts known to us respecting the invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, provide all requested documents, and do everything reasonably possible to aid THE GOVERNMENT and its assigns to obtain and enforce proper patent protection for the invention in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

We have authorized THE GOVERNMENT to file and prosecute the patent applications, as well as any corresponding international or national applications that claim priority from them. THE

GOVERNMENT has the right to select attorneys or agents of its choice to prosecute at its discretion the patent applications on its behalf.

We grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: Oct. 3, 2003

[Signature]  
Shousun Chen Szu

STATE OF Maryland ) ss.  
COUNTY OF Montgomery )

This 3 day of Oct, 2003, before me personally came the above-named Shousun Chen Szu, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

[Signature]  
Notary Public for GRA. C. SHAH  
My commission expires NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires July 24, 2004

[SEAL]

Dated: \_\_\_\_\_

\_\_\_\_\_  
Zuzana Kossaczka

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

This \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally came the above-named Zuzana Kossaczka, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

[SEAL]



### ASSIGNMENT

We, Shousun Chen Szu, of Bethesda, Maryland, a citizen of the United States of America, Zuzana Kossaczka, of Bethesda, Maryland, a citizen of Slovakia, and John B. Robbins, of Chevy Chase, Maryland, a citizen of the United States of America, have invented a certain invention entitled VIBRIO CHOLERAEE 0139 CONJUGATE VACCINES for which the following patent applications have been filed:

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both of which applications are collectively referred to herein as "the patent applications."

We were employed by the Department of Health and Human Services at the time the invention was made. The conditions under which said invention was made are such as to entitle the Government of the United States of America under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest in the invention, in the United States and all other countries throughout the world.

In consideration of our obligations under Executive Order 10096, and other valuable consideration, we the undersigned, have sold, assigned, and transferred and do sell, assign, and transfer to The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services (hereinafter THE GOVERNMENT), and successors and assigns, the full and exclusive right, title, and interest in the patent applications and invention throughout the United States of America, its territories and dependencies, and all other countries. This includes an assignment of all Letters Patent that may be granted on the invention in the United States of America and all countries throughout the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof; and the right to claim priority from the patent applications as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

We authorize and request the issuance of said Letters Patent to THE GOVERNMENT as assignee of the entire right, title, and interest to be held as fully and entirely as the same would have been held by us had this assignment not been made.

We warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of the present assignment.

We also agree upon reasonable request to communicate to THE GOVERNMENT, its representatives, assigns or agents, any facts known to us respecting the invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, provide all requested documents, and do everything reasonably possible to aid THE GOVERNMENT and its assigns to obtain and enforce proper patent protection for the invention in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

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GOVERNMENT has the right to select attorneys or agents of its choice to prosecute at its discretion the patent applications on its behalf.

We grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: \_\_\_\_\_

Shousun Chen Szu

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

This \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally came the above-named Shousun Chen Szu, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

[SEAL]

Dated: September 23, 2003

F. Kossaczka  
Zuzana Kossaczka

STATE OF Maryland )  
 ) ss.  
COUNTY OF Prince Georges )

This 23<sup>rd</sup> day of September 2003, before me personally came the above-named Zuzana Kossaczka, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

Shawn Young  
Notary Public for Prince Georges County  
My commission expires: 10/1/06

[SEAL]

Dated: \_\_\_\_\_

\_\_\_\_\_  
John B. Robbins

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

This \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally came the above-named John B. Robbins, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

[SEAL]