

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Gwong-Jen J. Chang</td> <td>11/14/2005</td> </tr> <tr> <td>Wayne D. Crill</td> <td>11/14/2005</td> </tr> </tbody> </table>		Name	Execution Date	Gwong-Jen J. Chang	11/14/2005	Wayne D. Crill	11/14/2005						
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services, Centers for Disease Control and Prevention</td> </tr> <tr> <td>Street Address:</td> <td>4770 Buford Hwy (K79)</td> </tr> <tr> <td>Internal Address:</td> <td>Technology Transfer Office</td> </tr> <tr> <td>City:</td> <td>Atlanta</td> </tr> <tr> <td>State/Country:</td> <td>GEORGIA</td> </tr> <tr> <td>Postal Code:</td> <td>30341</td> </tr> </table>		Name:	The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services, Centers for Disease Control and Prevention	Street Address:	4770 Buford Hwy (K79)	Internal Address:	Technology Transfer Office	City:	Atlanta	State/Country:	GEORGIA	Postal Code:	30341
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CORRESPONDENCE DATA													
Fax Number: (503)595-5301 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: (503) 595-5300 Email: susan.graf@klarquist.com Correspondent Name: Klarquist Sparkman, LLP Address Line 1: 121 SW Salmon Street Address Line 2: One World Trade Center, Suite 1600 Address Line 4: Portland, OREGON 97204													
ATTORNEY DOCKET NUMBER:	6395-66689-08												
NAME OF SUBMITTER:	Susan W. Graf												
Total Attachments: 3													

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PATENT
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WDN/TMH:mib 6395-66689-02 1-026-03 08/16/05

ASSIGNMENT

We, Gwong-Jen J. Chang, of 4237 Beaver Creek Drive, Fort Collins, Colorado 80526, a citizen of the United States of America, and Wayne D. Crill, of 1121 Akin Avenue, Fort Collins, Colorado 80521, a citizen of the United States of America, have invented a certain invention entitled LOCALIZATION AND CHARACTERIZATION OF FLAVIVIRUS ENVELOPE GLYCOPROTEIN CROSS-REACTIVE EPITOPES AND METHODS FOR THEIR USE for which the following patent applications have been filed:

U.S. Provisional Patent Application No. 60/591,898, filed on July 27, 2004; and
PCT Application No. PCT/US2005/026672, filed on July 27, 2005

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, Centers for Disease Control and Prevention (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.

ASSIGNMENT - PAGE 1 OF 3

WDN/TMH:mlb 6395-66689-02 1-026-03 08/16/05

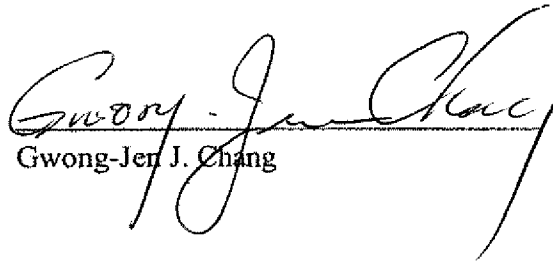
We have authorized THE GOVERNMENT to file and prosecute the patent applications, as well as any corresponding international or national applications that claim priority from them. THE GOVERNMENT has the right to select attorneys or agents of its choice to prosecute at its discretion the patent applications 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.

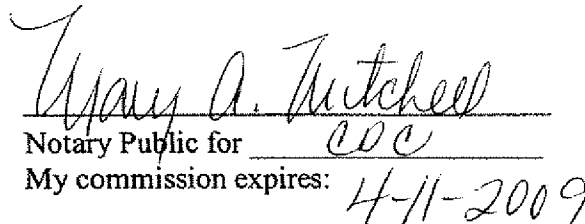
Dated:

11/14/2005


Gwong-Jen J. Chang

STATE OF COLORADO)
COUNTY OF LAKIMÉ) ss.

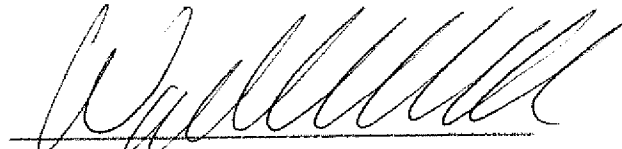
This 14 day of November, 2005, before me personally came the above-named Gwong-Jen J. Chang, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.


Notary Public for CO
My commission expires: 4-11-2009

[SEAL]

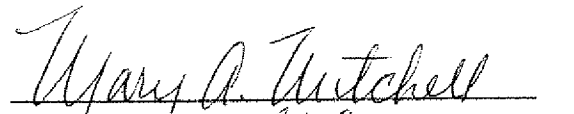
WDN/TMH:mlb 6395-66689-02 1-026-03 08/16/05

Dated: 11/14/05


Wayne D. Crill

STATE OF COLORADO)
COUNTY OF LARIMER) ss.

This 14 day of November, 2005, before me personally came the above-named Wayne D. Crill, 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 CNC
My commission expires: 4-11-2009

[SEAL]