


Client Code: NIH300.001NP

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To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): (List using letters or numbers for multiple parties)</p> <p>1. Lewis Markoff 2. Li Yu</p> <p>Additional name(s) of conveying party(ies) attached?</p> <p>() Yes (X) No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: The Government of the United States of America; as represented by the Secretary, Department of Health and Human Services</p> <p>Internal Address: Suite 325</p> <p>Street Address: 6011 Executive Blvd.</p> <p>City: Rockville State: MD</p> <p>ZIP: 20852-3804</p> <p>Additional name(s) of receiving party(ies) attached?</p> <p>() Yes (X) No</p>
<p>3. Nature of conveyance:</p> <p>(X) Assignment () Security Agreement () Merger () Change of Name () Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures)</p> <p>1. September 15, 2008 2. September 13, 2008</p>	<p>4. US or PCT Application number(s) or US Patent number(s):</p> <p>(X) Patent Application No.: 11/629,560 Filing Date: December 14, 2006</p> <p>Additional numbers attached?</p> <p>() Yes (X) No</p>
<p>5. Party to whom correspondence concerning document should be mailed:</p> <p>Customer No. 20,995</p> <p>Address: Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14th Floor Irvine, CA 92614</p> <p>Return Fax: (949) 760-9502</p> <p>Attorney's Docket No.: NIH300.001NP</p>	<p>6. Total number of applications and patents involved: 1</p>
<p>7. Total fee (37 CFR 1.21(h)): \$40</p> <p>(X) Authorized to be charged to deposit account</p>	<p>8. Deposit account number: 11-1410</p> <p>Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p>
<p>9. Statement and signature.</p> <p>To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.</p> <p><u>Daniel Hart.</u> Name of Person Signing</p> <p>40,637 Registration No.</p> <p> Signature</p> <p><u>Sept 17, 2008</u> Date</p> <p>Total number of pages including cover sheet, attachments and document: 4</p>	

Documents transmitted via Facsimile to be recorded with required cover sheet information to:

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ASSIGNMENT

WHEREAS, we, Lewis Markoff and Li Yu, employees of the Department of Health and Human Services, have invented certain new and useful improvements in WEST NILE VIRUS WITH MUTATIONS IN THE 3' TERMINAL STEM AND LOOP SECONDARY STRUCTURE FOR USE AS LIVE VIRUS VACCINES, for which we have filed an application for Letters Patent of the United States Serial No.11/629,560, filed December 14, 2006, which is a U.S. National Phase of International Application No. PCT/US2005/020737, filed June 14, 2005, which claims the benefit of U.S. Provisional Application No. 60/579,386, filed June 14, 2004;

WHEREAS, we are the applicants named in the above-identified applications;

WHEREAS, the conditions under which said improvements were made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096 to an entire right, title, and interest therein, both domestic and foreign; and

WHEREAS, the Government of the United States is desirous of acquiring all domestic and foreign right, title and interest in the above-mentioned improvements and applications; and

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign and transfer to the United States of America, as represented by the Secretary, Department of Health and Human Services, the full and exclusive rights in and to said improvements and said applications within each and every country in which the Government elects to file and the entire right, title and interest in and to such applications, and any continuations, continuations-in-part, divisions, reissues or extensions thereof, and including priority rights as may be filed in the U.S. and foreign countries, and such Letters Patent as may be granted to be held by the Government to the end of the term for which the same would have been held by the inventors had this assignment not been made.

We further agree to make, execute and deliver to the Secretary, Department of Health and Human Services, upon request, any and all papers, documents, affidavits or other instruments that may be necessary in the prosecution of any application or applications for improvements or reissues of Letters Patent, and to assist the Government in every way as may be requested in protecting said invention, provided that any expense of extending such assistance shall be paid by the Government.

Client Code : NIH300.001NP
Serial No. : 11/629,560
Filing Date : December 14, 2006

IN WITNESS WHEREOF, I hereunto set my hand and seal this 15 day of
September, 2008.

Lewis Markoff
Lewis Markoff



STATE OF Maryland
COUNTY OF Montgomery] ss.

On this 15 day of September, 2008, before me, a Notary Public in and for the State and County aforesaid, personally appeared Lewis Markoff, personally known to me or proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.

S. Rivera D Montgomery MD
Notary Public in and for the aforesaid County and State

My Commission Expires: 6-22-10

Client Code : NIH300.001NP
Serial No. : 11/629,560
Filing Date : December 14, 2006

IN WITNESS WHEREOF, I hereunto set my hand and seal this 13th day of September, 2008

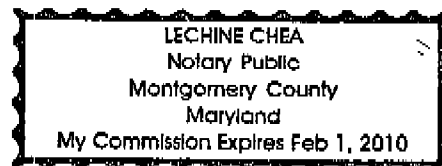
Li Yu

STATE OF MARYLAND
COUNTY OF MONTGOMERY] ss.

On this 13th day of September, 2008, before me, a Notary Public in and for the State and County aforesaid, personally appeared Li Yu, personally known to me or proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.

Chealechine
Notary Public in and for the aforesaid County and State

My Commission Expires: Feb 1, 2010



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