PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEFF ROBERTS	01/14/2010
DOUGLAS R. LOWY	01/14/2010
JOHN T. SCHILLER	01/14/2010

RECEIVING PARTY DATA

Name:	THE USA, AS REPRESENTED BY THE SECRETARY, DEPT. OF HEALTH AND HUMAN SERVICES
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16235152

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NAME OF SUBMITTER:	RICHARD J. STERN, PHD
SIGNATURE:	/Richard J. Stern/
DATE SIGNED:	07/23/2019

Total Attachments: 3

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PATENT REEL: 049838 FRAME: 0319

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> PATENT REEL: 049838 FRAME: 0320

ASSIGNMENT FOR NIH/FDA INVENTIONS (NIH OR FDA CO-INVENTORS ONLY)

WHEREAS, I/we, Jeff Roberts of 198 Halpine Road, Apt. 1234, Rockville, MD 20852; Douglas R. Lowy of 8519 Rosewood Drive, Bethesda, MD 20814; and John T. Schiller of 9630 Dewmar Lane, Kensington, MD 20895, employee/employees of the National Institutes of Health, a component of the United States Department of Health and Human Services having an address at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660, [hereinafter The Inventors], have made certain inventions as described and claimed in the U.S. Patent Application having United States Serial Number 12/598,684, filed November 3, 2009, and which is entitled "PAPILLOMAVIRUS PSEUDOVIRUSES FOR DETECTION AND THERAPY OF TUMORS" ("U.S. Application") and;

WHEREAS, I/we are the applicant(s) named in the above-identified U.S. Application; and

WHEREAS, the inventions described and claimed therein were made under conditions such as to entitle THE UNITED STATES OF AMERICA, as represented by the Secretary, Department of Health and Human Services [hereinafter THE GOVERNMENT] under Executive Order 10096 and its amendments, 35 USC §§200-201, §§206-207, and §210 and 37 CFR Part 501 to the entire right, title, and interest in such inventions; and

WHEREAS, THE GOVERNMENT is desirous of acquiring all domestic and foreign right, title, and interest in the inventions described and claimed in the U.S. Application; and

NOW, THEREFORE, having the legal obligation to assign my/our right, title and interest in the inventions described and claimed in the above-identified patent application to **THE GOVERNMENT**, having a place of business at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660 and for consideration, the receipt and sufficiency of which are hereby acknowledged, I/we hereby assign and transfer to **THE GOVERNMENT**:

the entire right, title, and interest in and to any and all inventions described and claimed in said U.S. Application and any and all Letters Patent which may be granted thereon, and any and all continuations, divisions, reissues or extensions thereof; and

all rights to claim priority on the basis of said U.S. Application including but not limited to applications filed through the provisions of the Patent Cooperation Treaty ("PCT Applications"); and

all applications for Letters Patent that may be filed for any and all inventions described and claimed in said U.S. Application that may be filed in any foreign country and all Letters Patents that may be granted thereon in any foreign country and all extensions, renewals, and reissues thereof; and

any and all such Letters Patents as may be granted in the United States or any foreign country 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.

I/we further agree to make, execute, and deliver to **THE GOVERNMENT**, 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.

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IN WITNESS WHEREOF we subscribe our hands and seals on the dates shown below:

Inventor 1:
1.14.10 Date Jeff Roberts
County of Mingomed Ss:
State of
[Seal] Notary Public for Bulled, WO My Commission Expires: U 14 2/013
Inventor 2:
Date Douglas R. Lowy
County of Montgamey Ss:
State of
[Seal] Notary Public for Mantogramy Canta, Botholan Mo My Commission Expires: 6/14/2013
Page 2 of 3

///4/10 Date	John T. Schiller
Date	John F. Schiller
County of Montgoney	 Ss:
State of	
Subscribed and sworn to be	efore me this $\underline{(Y)}$ day of $\underline{)}$
[Seal]	Thores Jones
	Notary Public for Bethele mp
	My Commission Expires: 6/1-/2013
All Control	, ,