

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PETER L. COLLINS	01/15/2016
CYRIL LE NOUEN	01/15/2016
LINDA G. BROCK	03/11/2016
URSULA J. BUCHHOLZ	01/15/2016
JOSHUA MARC DINAPOLI	01/21/2016
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State/Country:	MARYLAND
Postal Code:	20892-7660
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15924012
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SIGNATURE:	/Rita P. Sanzgiri/
DATE SIGNED:	03/20/2018

Total Attachments: 5

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**ASSIGNMENT FOR NIH/FDA/CDC INVENTIONS AIA
(NIH OR FDA OR CDC AND LEIDOS BIOMEDICAL CO-INVENTORS ONLY)**

WHEREAS, I/we, Peter L. Collins, Cyril Le Nouën, Linda G. Brock, Ursula J. Buchholz and Joshua Marc DiNapoli, employees 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), together with Steffen Mueller and Eckard Wimmer, have made certain inventions as described and claimed in U.S. Patent Application Serial No. 14/766,620, filed August 7, 2015, and which is entitled "ATTENUATION OF HUMAN RESPIRATORY SYNCYTIAL VIRUS BY GENOME SCALE CODON-PAIR DEOPTIMIZATION" ("The Patent Application(s)";

WHEREAS, I/we are the inventor(s) named in The Patent Application(s); and

WHEREAS, the inventions described and claimed in The Patent Application(s) 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 §§200-202, §§206-207, and §210 and 37 CFR Part 501 and 37 CFR Part 401 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 Patent Application(s); and

NOW, THEREFORE, having the legal obligation to assign my/our right, title and interest in the inventions described and claimed in The Patent Application(s) 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 The Patent Applications and any and all Letters Patent(s) which may be granted thereon, and any and all continuations, divisions, reissues or extensions thereof; and

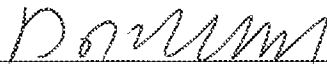

all rights to claim priority on the basis of The Patent Application(s) including but not limited to applications filed through the provisions of the Patent Cooperation Treaty ("PCT Applications"); and

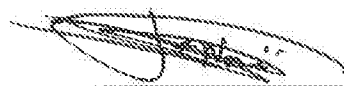

all applications for Letters Patent(s) that may be filed for any and all inventions described and claimed in The Patent Application(s) that may be filed in any foreign country and all Letters Patents that may be granted thereon in any foreign country and all extensions, renewals, and reissues thereof;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

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

Inventor 1:	
<u>1/15/2016</u> Date	<u></u> Peter L. Collins, PhD
County of <u>Montgomery</u> State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>15</u> day of <u>January</u> , 20 <u>16</u> .	
[Seal] MONICA VALENCIA NOTARY PUBLIC STATE OF MARYLAND My Commission Expires February 11, 2018	<u></u> Notary Public for _____ My Commission Expires: <u>02/11/2018</u>

Inventor 2:	
<u>1/15/2016</u> Date	<u></u> Cyril Le Nouën, PhD
County of <u>Montgomery</u> State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>15</u> day of <u>January</u> , 20 <u>16</u> .	
[Seal] MONICA VALENCIA NOTARY PUBLIC STATE OF MARYLAND My Commission Expires February 11, 2018	<u></u> Notary Public for _____ My Commission Expires: <u>02/11/2018</u>

Inventor 3:

March 11, 2016
Date

Linda G. Brock
Linda G. Brock, PhD

County of District of Columbia
State of _____

Subscribed and sworn to before me this 11 day of March, 2016



Almaz Lulseged
Notary Public for _____

ALMAZ LULSEGED
My Commission Expires: NOTARY PUBLIC DISTRICT OF COLUMBIA
My Commission Expires April 14, 2018

Inventor 4:

Date

Ursula J. Buchholz, PhD, DVM

County of _____
State of _____

Subscribed and sworn to before me this _____ day of _____, 20____

[Seal]

Notary Public for _____
My Commission Expires: _____

Inventor 3:

Date Linda G. Brock, PhD

County of _____

State of _____

Subscribed and sworn to before me this _____ day of _____, 20____.

[Seal]

Notary Public for _____

My Commission Expires: _____

Inventor 4:

1/15/2016
Date

U. Buchholz
Ursula J. Buchholz, PhD, DVM

County of Montgomery

State of Maryland

Subscribed and sworn to before me this 15 day of January, 2016.

[Seal]

MONICA VALENCIA
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires February 11, 2019

Monica Valencia
Notary Public for _____

My Commission Expires: 02/11/2019.

Inventor 5:

1/21/2016
Date

Joshua Marc DiNapoli
Joshua Marc DiNapoli, PhD

County of Suffolk
State of Commonwealth of Massachusetts

Subscribed and sworn to before me this 21 day of January, 2016

[Seal]

Susannah F. Fernandez
Notary Public for _____
My Commission Expires: 2-11-16



SUSANNAH F. FERNANDEZ
Notary Public
Commonwealth of Massachusetts
My Commission Expires
February 11, 2016