

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ted M. Ross</td> <td>04/02/2013</td> </tr> <tr> <td>Corey J. Crevar</td> <td>03/29/2013</td> </tr> <tr> <td>Brendan M. Giles</td> <td>04/05/2013</td> </tr> </tbody> </table>		Name	Execution Date	Ted M. Ross	04/02/2013	Corey J. Crevar	03/29/2013	Brendan M. Giles	04/05/2013				
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<table border="1"> <tr> <td>Name:</td> <td>University of Pittsburgh - Of The Commonwealth System of Higher Education</td> </tr> <tr> <td>Street Address:</td> <td>200 Gardner Steel Conference Center</td> </tr> <tr> <td>Internal Address:</td> <td>Thackeray and O'Hara Streets</td> </tr> <tr> <td>City:</td> <td>Pittsburgh</td> </tr> <tr> <td>State/Country:</td> <td>PENNSYLVANIA</td> </tr> <tr> <td>Postal Code:</td> <td>15260</td> </tr> </table>		Name:	University of Pittsburgh - Of The Commonwealth System of Higher Education	Street Address:	200 Gardner Steel Conference Center	Internal Address:	Thackeray and O'Hara Streets	City:	Pittsburgh	State/Country:	PENNSYLVANIA	Postal Code:	15260
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CORRESPONDENCE DATA													
<p>Fax Number: 5035955301 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 503-595-5300</p> <p>Email: cynthia.failla@klarquist.com</p> <p>Correspondent Name: Jodi Connolly, Klarquist Sparkman, LLP</p> <p>Address Line 1: 121 SW Salmon Street, Suite 1600</p> <p>Address Line 2: One World Trade Center</p> <p>Address Line 4: Portland, OREGON 97204-2988</p>													
ATTORNEY DOCKET NUMBER:	8123-88295-02												
NAME OF SUBMITTER:	Jodi L. Connolly, Ph.D.												
Signature:	/Jodi L. Connolly/												

PATENT

Date:

05/29/2013

Total Attachments: 4

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ASSIGNMENT

WHEREAS, we, Ted M. Ross, of Pittsburgh, Pennsylvania, Corey J. Crevar, of ~~West~~ ^{North Huntingdon} ~~Mifflin~~, Pennsylvania, and Brendan M. Giles of Centennial, Colorado, have invented a certain invention, entitled COMPUTATIONALLY OPTIMIZED BROADLY REACTIVE ANTIGENS FOR HUMAN AND AVIAN H5N1 INFLUENZA, for which the following applications have been filed:

U.S. Provisional Patent Application No. 61/597,998, filed on February 13, 2012; and
PCT Patent Application No. PCT/US2013/025284, filed on February 8, 2013,
which applications are collectively referred to as "the patent applications."

WHEREAS, UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, a non-profit entity organized and existing under the laws of the Commonwealth of Pennsylvania, having a place of business at 200 Gardner Steel Conference Center, Thackeray and O'Hara Streets, Pittsburgh, Pennsylvania 15260, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Ted M. Ross, Corey J. Crevar, and Brendan M. Giles hereby sell, assign, and transfer to UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, the full and exclusive right, title, and interest in and to said invention, the patent applications, and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, the patent applications, and letters patent in this or any foreign country, and all corresponding non-provisional applications, divisions, continuations, continuations-in-part, reissues, and extensions thereof, to be held and enjoyed by UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted by the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, or its successors and assigns,

any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and do everything possible to aid UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, its successors, and assigns to obtain and enforce proper patent protection for said invention in the United States or any foreign country.

We confirm that, at the time the invention was made, we were under an obligation to assign the invention to UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION.

We hereby 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.

Executed at the place and date opposite our respective signatures below.

At Port St Lucie, Florida

(City and State)

on this 2 day of April, 2013.

STATE OF FLORIDA)
COUNTY OF SAINT LUCIE) ss.

This 2 day of April, 2013, before me personally came the above-named Ted M. Ross, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Ted M. Ross's own free will for the purpose set forth therein.



[SEAL]

CARMEN Y. NAVY
MY COMMISSION # EE 146386
EXPIRES: March 15, 2016
Bonded Thru Budget Notary Services

Ted M. Ross
Ted M. Ross

Carmen Y. Navy
Notary Public For
My commission expires: 3/15/16

Corey J. Crevar
Corey J. Crevar

At Munhall PA 15120
(City and State)
on this 29th day of March, 2013.

STATE OF Pennsylvania)
COUNTY OF Allegheny) ss.

This 29th day of March, 2013, before me personally came the above-named Corey J. Crevar, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Corey J. Crevar's own free will for the purpose set forth therein.

Christy A. Robson
Notary Public For
My commission expires:

[SEAL]

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Christy A. Robson, Notary Public
Munhall Boro, Allegheny County
My Commission Expires Aug. 1, 2013
Member, Pennsylvania Association of Notaries

At Denver, Colorado
(City and State)
on this 5 day of April, 2013.

Brendan M. Giles
Brendan M. Giles

STATE OF Colorado)
City/COUNTY OF Denver) ss.

This 5th day of April, 2013, before me personally came the above-named
Brendan M. Giles, who executed the foregoing instrument in my presence, and who
acknowledged to me that this instrument was executed by Brendan M. Giles's own free will for
the purpose set forth therein.

CHRISTINA M. MEISEL
NOTARY PUBLIC, STATE OF COLORADO
My Comm. Expires 02/06/2016

[SEAL]

Christina M. Meisel
Notary Public For
My commission expires: 2/6/16