

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6173000

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PETER D. KWONG	01/24/2013
GARY J. NABEL	01/25/2013
REBECCA S. RUDICELL	01/09/2013
JOHN MASCOLA	01/09/2013
MARK CONNORS	01/23/2013
IVELIN GEORGIEV	01/08/2013
JIANG ZHU	01/17/2013
YOUNG DO KWON	01/09/2013
TONGQING ZHOU	01/16/2013
YONGPING YANG	01/16/2013
BAOSHAN ZHANG	01/10/2013
GWO-YU CHUANG	01/10/2013
XUELING WU	01/09/2013
ZHI-YONG YANG	01/11/2013
WEI SHI	01/09/2013
RECEIVING PARTY DATA	
Name:	THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES
Street Address:	OFFICE OF TECHNOLOGY TRANSFER, NATIONAL INSTITUTES OF HEALTH
Internal Address:	6011 EXECUTIVE BOULEVARD, SUITE 325, MSC 7660
City:	BETHESDA
State/Country:	MARYLAND
Postal Code:	20892-7660
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	16044083
Patent Number:	10035844
CORRESPONDENCE DATA	

PATENT

Fax Number: (503)595-5301

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 5035955300

Email: jacqueline.labergetyson@klarquist.com

Correspondent Name: GREGORY K. SCOTT, KLARQUIST SPARKMAN, LLP

Address Line 1: ONE WORLD TRADE CENTER

Address Line 2: 121 SW SALMON STREET, SUITE 1600

Address Line 4: PORTLAND, OREGON 97204

ATTORNEY DOCKET NUMBER:	4239-88404-14
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NAME OF SUBMITTER:	GREGORY K. SCOTT
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SIGNATURE:	/Gregory K. Scott/
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DATE SIGNED:	06/26/2020
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Total Attachments: 18

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

WHEREAS, we, Peter D. Kwong, Gary J. Nabel, Rebecca S. Rudicell, John Mascola, Mark Connors, Ivelin Georgiev, Jiang Zhu, Young Do Kwon, Tongqing Zhou, Yongping Yang, Baoshan Zhang, Gwo-Yu Chuang, Xueling Wu, Zhi-yong Yang, and Wei Shi [hereinafter **The Inventors**], 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, have made certain inventions as described and claimed in:

U.S. Provisional Patent Application No. 61/568,520, filed on December 8, 2011, entitled "NEUTRALIZING ANTIBODIES TO HIV-1 AND THEIR USE,"

U.S. Provisional Patent Application No. 61/613,431, filed on March 20, 2012, entitled "NEUTRALIZING ANTIBODIES TO HIV-1 AND THEIR USE,"

U.S. Provisional Patent Application No. 61/698,452, filed on September 7, 2012, entitled "NEUTRALIZING ANTIBODIES TO HIV-1 AND THEIR USE," and

PCT Patent Application No. PCT/US2012/068827, filed on December 10, 2012, entitled "NEUTRALIZING ANTIBODIES TO HIV-1 AND THEIR USE,"

all of which applications are collectively referred to herein as "the Applications"; and

WHEREAS, we are the applicants named in the above-identified Applications; 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 U.S.C. §§200-201, §§206-207, and §210 and 37 C.F.R. 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 Applications;

NOW, THEREFORE, having the legal obligation to assign our right, title and interest in the inventions described and claimed in the above-identified Patent Applications 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, 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 Applications and any and all Letters Patent which may be granted thereon, and any and all continuations, divisions, reissues or extensions thereof; and

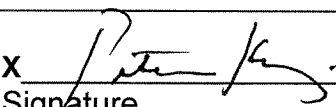
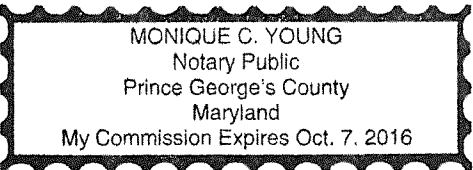
all rights to claim priority on the basis of said Applications including but not limited to applications filed through the provisions of the Patent Cooperation Treaty ("PCT Applications"); and

all applications for Letters Patent that may be filed for any and all inventions described and claimed in said Applications 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.

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. **THE GOVERNMENT** promises to pay any reasonable expenses incurred by **The Inventors** in making, executing and delivering of such papers to **THE GOVERNMENT**.

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

Inventor: Peter D. Kwong	
Date <u>24 January 2013</u>	X <u></u> Signature
County of <u>Montgomery</u>	
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>24th</u> day of <u>January</u> , <u>2013</u> .	
Seal 	Notary Public for <u>Prince Georges County, MD.</u> My Commission Expires: <u>Oct. 7, 2016</u>

Inventor: Gary J. Nabel

Date 1/25/2013

X [Signature]
Signature

County of _____

State of _____

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

Seal

Jeff Buda (Jennifer Buda) 1/25/13
Tina Schuna (Tina Schuna) 1/25/13

Notary Public for _____

My Commission Expires: _____

Inventor: Rebecca S. Rudicell

Date 1/9/2013

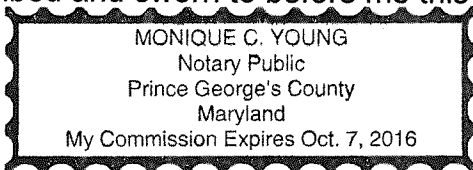
X [Signature]
Signature

County of Montgomery

State of Maryland

Subscribed and sworn to before me this 9th day of January, 2013.

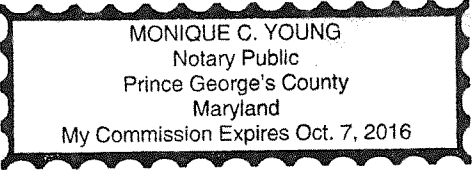
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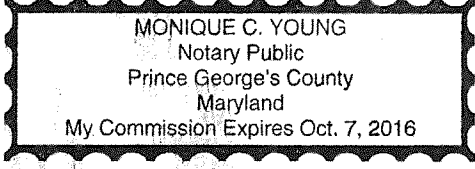


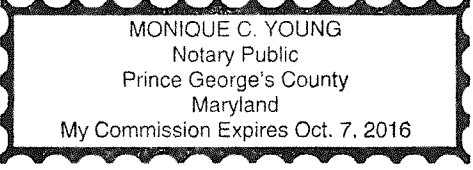
Notary Public for _____

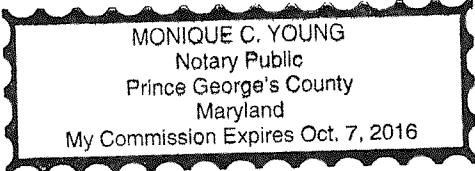
My Commission Expires: _____

Prince Georges County, MD.
may 2016 - Oct. 7, 2016.

Inventor: John Mascola	
Date <u>1-9-2013</u>	X <u>[Signature]</u> Signature
County of <u>Montgomery</u>	
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>9th</u> day of <u>January</u> , <u>2013</u> .	
Seal	
	Notary Public for <u>Prince Georges County, MD.</u> My Commission Expires: <u>Oct. 7, 2016</u>

Inventor: Mark Connors	
Date <u>1/23/13</u>	X <u>[Signature]</u> Signature
County of <u>Montgomery</u>	
State of <u>MARYLAND</u>	
Subscribed and sworn to before me this <u>23rd</u> day of <u>January</u> , <u>2013</u> .	
Seal	
	Notary Public for <u>Prince Georges County, MD.</u> My Commission Expires: <u>October 7, 2016</u>

Inventor: Ivelin Georgiev	
Date <u>01/08/2013</u>	X <u>Ivelin Georgiev</u> Signature
County of <u>Montgomery</u>	
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>9</u> day of <u>January</u> , <u>2013</u> .	
Seal	
	Notary Public for <u>Prince George's County, MD.</u> My Commission Expires: <u>October 7, 2016</u>

Inventor: Jiang Zhu	
Date <u>01/17/2013</u>	X <u>Jiang Zhu</u> Signature
County of <u>Montgomery</u>	
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>17</u> day of <u>January</u> , <u>2013</u> .	
Seal	
	Notary Public for <u>Prince George's County, MD.</u> My Commission Expires: <u>October 7, 2016</u>

Inventor: Young Do Kwon	
Date <u>1/9/2013</u>	X <u>Green Solomon</u> Signature
County of <u>Montgomery</u>	
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>9</u> day of <u>January</u> , <u>2013</u> .	
Seal	
<div style="border: 1px solid black; padding: 5px; text-align: center;">MONIQUE C. YOUNG Notary Public Prince George's County Maryland My Commission Expires Oct. 7, 2016</div>	Notary Public for <u>Prince Georges County, MD.</u> My Commission Expires: <u>Oct. 7, 2016</u>

Inventor: Tongqing Zhou	
Date <u>1/16/2013</u>	X <u>[Signature]</u> Signature
County of <u>Montgomery</u>	
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>16th</u> day of <u>January</u> , <u>2013</u> .	
Seal	
<div style="border: 1px solid black; padding: 5px; text-align: center;">MONIQUE C. YOUNG Notary Public Prince George's County Maryland My Commission Expires Oct. 7, 2016</div>	Notary Public for <u>Prince Georges County, MD.</u> My Commission Expires: <u>Oct. 7, 2016</u>

Inventor: Yongping Yang

Date 01/16/2013

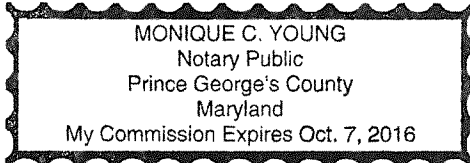
x [Signature]
Signature

County of Montgomery

State of MD

Subscribed and sworn to before me this 16th day of January, 2013.

Seal



Notary Public for
Prince George's County, MD.
My Commission Expires:
Oct. 7, 2016

Inventor: Baoshan Zhang

Date 1-10-2013

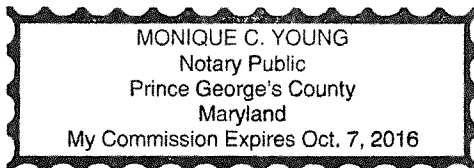
x [Signature]
Signature

County of Montgomery

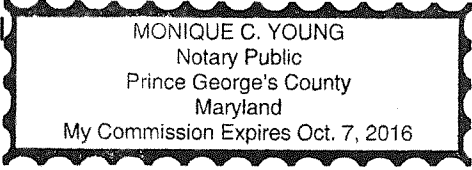
State of Maryland

Subscribed and sworn to before me this 10th day of January, 2013.

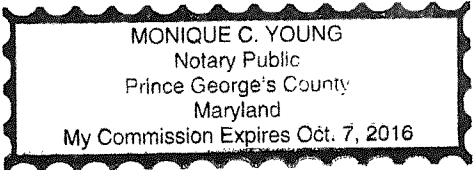
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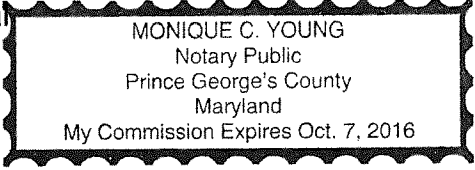


Notary Public for
Prince George's County, MD.
My Commission Expires:
Oct. 7, 2016

Inventor: Gwo-Yu Chuang	
Date <u>1/10/2013</u>	X <u>[Signature]</u> Signature
County of <u>Montgomery</u>	
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>10th</u> day of <u>January</u> , <u>2013</u> .	
Seal	
	Notary Public for <u>Prince Georges County, MD.</u> My Commission Expires: <u>Oct. 7, 2016</u>

Inventor: Xueling Wu	
Date _____	X _____ Signature
County of _____	
State of _____	
Subscribed and sworn to before me this _____ day of _____, _____.	
Seal	
	Notary Public for _____ My Commission Expires: _____

Inventor: Zhi-yong Yang	
Date <u>1/11/2013</u>	X <u>[Signature]</u> Signature
County of <u>Montgomery</u>	
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>11th</u> day of <u>January</u> , <u>2013</u> .	
Seal	
	Notary Public for <u>Prince Georges County, MD.</u> My Commission Expires: <u>Oct. 7, 2016</u>

Inventor: Wei Shi	
Date <u>1/9/2013</u>	X <u>[Signature]</u> Signature
County of <u>Montgomery</u>	
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>9th</u> day of <u>January</u> , <u>2013</u> .	
Seal	
	Notary Public for <u>Prince Georges County, MD.</u> My Commission Expires: <u>October 7, 2016</u>

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

WHEREAS, we, Peter D. Kwong, Gary J. Nabel, Rebecca S. Rudicell, John Mascola, Mark Connors, Ivelin Georgiev, Jiang Zhu, Young Do Kwon, Tongqing Zhou, Yongping Yang, Baoshan Zhang, Gwo-Yu Chuang, Xueling Wu, Zhi-yong Yang, and Wei Shi [hereinafter **The Inventors**], 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, have made certain inventions as described and claimed in:

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all of which applications are collectively referred to herein as "the Applications"; and

WHEREAS, we are the applicants named in the above-identified Applications; 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 U.S.C. §§200-201, §§206-207, and §210 and 37 C.F.R. 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 Applications;

NOW, THEREFORE, having the legal obligation to assign our right, title and interest in the inventions described and claimed in the above-identified Patent Applications 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, 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 Applications 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 Applications 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 Applications 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.

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. **THE GOVERNMENT** promises to pay any reasonable expenses incurred by **The Inventors** in making, executing and delivering of such papers to **THE GOVERNMENT**.

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

Inventor: Peter D. Kwong	
Date _____	X _____ Signature
County of _____	
State of _____	
Subscribed and sworn to before me this _____ day of _____, _____.	
Seal	Notary Public for _____ My Commission Expires: _____

Inventor: Gary J. Nabel

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:

Inventor: Rebecca S. Rudicell

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:

Inventor: John Mascola

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:

Inventor: Mark Connors

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:

Inventor: Ivelin Georgiev

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:

Inventor: Jiang Zhu

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:

Inventor: Young Do Kwon

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:

Inventor: Tongqing Zhou

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:

Inventor: Yongping Yang

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:

Inventor: Baoshan Zhang

Date _____

X _____
Signature

County of _____

State of _____

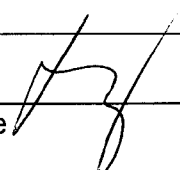
Subscribed and sworn to before me this _____ day of _____, _____.

Seal

Notary Public for

My Commission Expires:

Inventor: Gwo-Yu Chuang	
Date _____	X _____ Signature
County of _____	
State of _____	
Subscribed and sworn to before me this _____ day of _____, _____.	
Seal	Notary Public for _____ My Commission Expires: _____

Inventor: Xueling Wu	
Date <u>1/9/2013</u>	X _____ Signature 
County of <u>New York</u>	
State of <u>New York</u>	
Subscribed and sworn to before me this <u>9th</u> day of <u>January January</u> , <u>2013</u> .	
Seal	Notary Public for _____ My Commission Expires: <u>August 18, 2015</u>

KEVIN OROURKE
NOTARY PUBLIC, STATE OF NEW YORK
No. 01066097113
QUALIFIED IN NASSAU COUNTY
MY COMMISSION EXPIRES AUG. 18, 2015

Inventor: Zhi-yong Yang

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:

Inventor: Wei Shi

Date _____

X _____
Signature

County of _____

State of _____

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

Seal

Notary Public for

My Commission Expires:
