

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Steven A. Rosenberg</td> <td>08/05/2011</td> </tr> <tr> <td>Richard A. Morgan</td> <td>08/18/2011</td> </tr> <tr> <td>Timothy L. Frankel</td> <td>09/13/2011</td> </tr> <tr> <td>Peter Peng</td> <td>09/27/2011</td> </tr> </tbody> </table>		Name	Execution Date	Steven A. Rosenberg	08/05/2011	Richard A. Morgan	08/18/2011	Timothy L. Frankel	09/13/2011	Peter Peng	09/27/2011		
Name	Execution Date												
Steven A. Rosenberg	08/05/2011												
Richard A. Morgan	08/18/2011												
Timothy L. Frankel	09/13/2011												
Peter Peng	09/27/2011												
RECEIVING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>The United States of America, as represented by the Secretary, Department of Health and Human Services</td> </tr> <tr> <td>Street Address:</td> <td>Office of Technology Transfer, National Institutes of Health</td> </tr> <tr> <td>Internal Address:</td> <td>6011 Executive Boulevard, Suite 325, MSC 7660</td> </tr> <tr> <td>City:</td> <td>Bethesda</td> </tr> <tr> <td>State/Country:</td> <td>MARYLAND</td> </tr> <tr> <td>Postal Code:</td> <td>20892-7660</td> </tr> </table>		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
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: 1													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13146531</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13146531								
Property Type	Number												
Application Number:	13146531												
CORRESPONDENCE DATA													
<p>Fax Number: (312)616-5700</p> <p>Phone: 312-616-5600</p> <p>Email: email@leydig.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: John Kilyk, Jr.</p> <p>Address Line 1: Two Prudential Plaza, Suite 4900</p> <p>Address Line 2: 180 North Stetson Avenue</p> <p>Address Line 4: Chicago, ILLINOIS 60601-6731</p>													
ATTORNEY DOCKET NUMBER:	BIO.041111/EKM												

CH \$40.00 13146531

501674125

PATENT
REEL: 026981 FRAME: 0001

NAME OF SUBMITTER:

John Kilyk, Jr.

Total Attachments: 20

source=13146531#page1.tif
source=13146531#page2.tif
source=13146531#page3.tif
source=13146531#page4.tif
source=13146531#page5.tif
source=13146531#page6.tif
source=13146531#page7.tif
source=13146531#page8.tif
source=13146531#page9.tif
source=13146531#page10.tif
source=13146531#page11.tif
source=13146531#page12.tif
source=13146531#page13.tif
source=13146531#page14.tif
source=13146531#page15.tif
source=13146531#page16.tif
source=13146531#page17.tif
source=13146531#page18.tif
source=13146531#page19.tif
source=13146531#page20.tif

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

WHEREAS, we, Steven A. Rosenberg, Richard A. Morgan, Timothy L. Frankel, and Peter Peng, 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 Application Number 13/146,531, filed July 27, 2011, and which is entitled "T-CELL RECEPTORS AND RELATED MATERIALS AND METHODS OF USE" ("U.S. Application") and;

WHEREAS, we are the applicants 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 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, 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 Patents 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 Patents 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.

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 Patents, and to assist **THE GOVERNMENT** in every way as may be requested in protecting said inventions.

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

Inventor 1:	
<u>8/5/11</u> Date	<u>Steven A. Rosenberg</u> Steven A. Rosenberg
County of <u>Montgomery</u>	
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>5</u> day of <u>August</u> , <u>2011</u> .	
[Seal]	<u>Courtney R. Duncan</u> Notary Public for <u>Maryland</u> My Commission Expires: <u>08-08-2012</u>

COURTNEY R. DUNCAN
NOTARY PUBLIC
MONTGOMERY COUNTY, MD
MY COMM. EXPIRES 8-8-2012

Inventor 2:

Date

Richard A. Morgan

County of _____

State of _____

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

[Seal]

Notary Public for _____

My Commission Expires: _____

Inventor 3:	
_____	_____
Date	Timothy L. Frankel
Date _____	_____
	Witness
Date _____	_____
	Witness

Inventor 4:	
_____	_____
Date	Peter Peng
Date _____	_____
	Witness
Date _____	_____
	Witness

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

WHEREAS, we, Steven A. Rosenberg, Richard A. Morgan, Timothy L. Frankel, and Peter Peng, 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 Application Number 13/146,531, filed July 27, 2011, and which is entitled "T-CELL RECEPTORS AND RELATED MATERIALS AND METHODS OF USE" ("U.S. Application") and;

WHEREAS, we are the applicants 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 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, 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 Patents 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 Patents 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.

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 Patents, and to assist **THE GOVERNMENT** in every way as may be requested in protecting said inventions.

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

Inventor 1:	
_____	_____
Date	Steven A. Rosenberg
County of _____	
State of _____	
Subscribed and sworn to before me this ____ day of _____, _____.	
[Seal]	_____
	Notary Public for _____
	My Commission Expires: _____

Inventor 2:

8-18-11

Date

Richard A. Morgan

Richard A. Morgan

County of

Montgomery

State of

Maryland

Subscribed and sworn to before me this 18th day of August, 2011

[Seal]

Laurence D. Richards

Notary Public for

LAURENCE D. RICHARDS

My Commission Expires PUBLIC STATE OF MARYLAND

My Commission Expires July 14, 2012

Inventor 3:	
_____	_____
Date	Timothy L. Frankel
Date _____	_____
	Witness
Date _____	_____
	Witness

Inventor 4:

Date

Peter Peng

Date _____

Witness

Date _____

Witness

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

WHEREAS, we, Steven A. Rosenberg, Richard A. Morgan, Timothy L. Frankel, and Peter Peng, 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 Application Number 13/146,531, filed July 27, 2011, and which is entitled "T-CELL RECEPTORS AND RELATED MATERIALS AND METHODS OF USE" ("U.S. Application") and;

WHEREAS, we are the applicants 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 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, 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 Patents 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 Patents 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.

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 Patents, and to assist **THE GOVERNMENT** in every way as may be requested in protecting said inventions.

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

Inventor 1:	
_____	_____
Date	Steven A. Rosenberg
County of _____	
State of _____	
Subscribed and sworn to before me this ____ day of _____, ____.	
[Seal]	_____
	Notary Public for _____
	My Commission Expires: _____

Inventor 2:

Date

Richard A. Morgan

County of _____

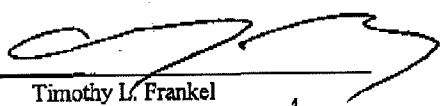
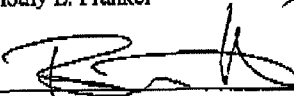

State of _____

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

[Seal]

Notary Public for _____

My Commission Expires: _____

Inventor 3:	
9/13/11 Date	 Timothy L. Frankel
9/13/11 Date	 Witness Brian Untch
9/13/11 Date	 Witness Zubin Bamboat

Inventor 4:	
_____	_____
Date	Peter Peng
Date _____	_____
	Witness
Date _____	_____
	Witness

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

WHEREAS, we, Steven A. Rosenberg, Richard A. Morgan, Timothy L. Frankel, and Peter Peng, 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 Application Number 13/146,531, filed July 27, 2011, and which is entitled "T-CELL RECEPTORS AND RELATED MATERIALS AND METHODS OF USE" ("U.S. Application") and;

WHEREAS, we are the applicants 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 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, 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 Patents 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 Patents 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.

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 Patents, and to assist **THE GOVERNMENT** in every way as may be requested in protecting said inventions.

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

Inventor 1:	
_____	_____
Date	Steven A. Rosenberg
County of _____	
State of _____	
Subscribed and sworn to before me this ____ day of _____, ____.	
[Seal]	_____
	Notary Public for _____
	My Commission Expires: _____

Inventor 2:

Date

Richard A. Morgan

County of _____

State of _____

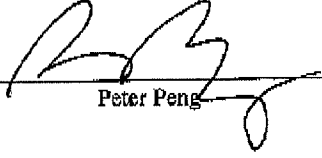
Subscribed and sworn to before me this ____ day of _____, _____.

[Seal]

Notary Public for _____

My Commission Expires: _____

Inventor 3:	
_____	_____
Date	Timothy L. Frankel
Date _____	_____
	Witness
Date _____	_____
	Witness

Inventor 4:	
<u>9/27/11</u> Date	<u></u> Peter Peng
Date _____	Witness _____
Date _____	Witness _____