

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4299825

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LYNN MACDONALD	06/05/2013
ANDREW J. MURPHY	06/25/2013
CAGAN GURER	05/31/2013
JOHN MCWHIRTER	06/05/2013
VERA VORONINA	06/14/2013
FAITH HARRIS	06/26/2013
SEAN STEVENS	05/29/2013
YINGZI XUE	06/17/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	REGENERON PHARMACEUTICALS, INC.
<b>Street Address:</b>	777 OLD SAW MILL RIVER ROAD
<b>City:</b>	TARRYTOWN
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10591-6707
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15415544
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(914)847-7705
<i>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.</i>	
<b>Phone:</b>	9148475589
<b>Email:</b>	patents@regeneron.com
<b>Correspondent Name:</b>	REGENERON PHARMACEUTICALS, INC.
<b>Address Line 1:</b>	777 OLD SAW MILL RIVER ROAD
<b>Address Line 2:</b>	PATENT DEPARTMENT
<b>Address Line 4:</b>	TARRYTOWN, NEW YORK 10591
<b>ATTORNEY DOCKET NUMBER:</b>	0825B-US02
<b>NAME OF SUBMITTER:</b>	PATRICK FITZGERALD
<b>SIGNATURE:</b>	/Patrick Fitzgerald/

PATENT

<b>DATE SIGNED:</b>	03/02/2017
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**Total Attachments: 12**

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**COMBINED JOINT ASSIGNMENT & DECLARATION**

**A. ASSIGNMENT**

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
1. Lynn Macdonald	White Plains, NY
2. Andrew J. Murphy	Croton-on-Hudson, NY
3. Cagan Gurer	Valhalla, NY
4. John McWhirter	Tarrytown, NY
5. Vera Voronina	Thornwood, NY
6. Faith Harris	Mamaroneck, NY
7. Sean Stevens	San Francisco, CA
8. Yingzi Xue	Ardasley, NY

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

**GENETICALLY MODIFIED MAJOR HISTOCOMPATIBILITY COMPLEX ANIMALS ; and**

- prepared for filing in the United States Patent and Trademark Office; or
  - identified by United States Application Serial No. **13/793,812** filed in the United States Patent and Trademark Office on **March 11, 2013**; and
  - identified by International Patent Application No. **Serial No.** filed on **Filing Date**;
- and
- is also aware of the following priority applications:

**Serial No.: 13/661,159; Filed: October 26, 2012**  
**Serial No.: 61/700,908; Filed: September 14, 2012**  
**Serial No.: 61/552582; Filed: October 28, 2011**  
**Serial No.: 61/552,587; Filed: October 28, 2011**

WHEREAS **REGENERON PHARMACEUTICALS, INC.** (hereinafter "ASSIGNEE"), having a usual place of business at **777 Old Saw Mill River Road, Tarrytown, New York 10591-6707**, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and

valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. My sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including to divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by me had this sale, assignment and transfer not been made;

AND, I hereby acknowledge that this Assignment, being of my entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts I know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;

AND, I further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;

AND, I hereby appoint ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, I hereby request the Director of Patents and Trademarks of the United States to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

AND, I covenant with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

**B. DECLARATION (37 CFR 1.63)**

As a below named inventor, I hereby declare that:

This declaration is directed to the patent application entitled:

**GENETICALLY MODIFIED MAJOR HISTOCOMPATIBILITY COMPLEX ANIMALS**  
; and

attached hereto or prepared for filing in the United States Patent and Trademark Office; or

identified by United States Application Serial No. **13/793,812** filed in the United States Patent and Trademark Office on **March 11, 2013**; or

identified by International Patent Application No. **Serial No.** filed on **Filing Date**.

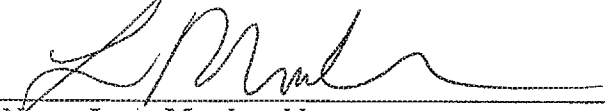
The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the application, including the claims and am aware of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR 1.56.

SIGNED this 5 day of JUNE, 2013.

  
Name: Lynn Macdonald

STATE OF New York  
COUNTY OF Westchester SS.

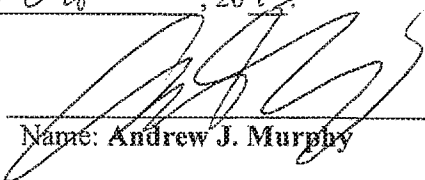
Before me this 5 day of JUNE, 2013, personally appeared Lynn Macdonald, and proved to me through satisfactory evidence of identity which was personally known to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

Name: Janice A. White  
My Commission Expires: 12-26-2014

JANICE A. WHITE  
Notary Public - State of New York  
No. 01-WH6052604  
Qualified in Rockland County  
My Commission Expires 12-26-2014

SIGNED this 25th day of June, 2013

  
Name: Andrew J. Murphy

STATE OF New York SS.

COUNTY OF WESTCHESTER

Before me this 25th day of June, 2013, personally appeared Andrew J. Murphy, and proved to me through satisfactory evidence of identity which was personally known to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

Name: Janice J. White

My Commission Expires: 12-26-2014

JANICE A. WHITE  
Notary Public - State of New York  
No. 01-WH6052604  
Qualified in Rockland County  
My Commission Expires 12-26-2014



SIGNED this 31 day of May, 2013.

Cagan Gurer  
Name: **Cagan Gurer**

STATE OF New York SS.  
COUNTY OF Rockland

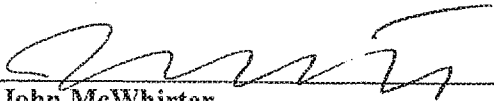
Before me this 31 day of May, 2013, personally appeared **Cagan Gurer**, and proved to me through satisfactory evidence of identity which was PERSONALLY KNOWN to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

Name: Janice A. White  
My Commission Expires: 12-26-2014

JANICE A. WHITE  
Notary Public - State of New York  
No. 01-WH6052604  
Qualified in Rockland County  
My Commission Expires 12-26-2014

SIGNED this 5 day of JUNE, 2013.

  
Name: John McWhirter

STATE OF New York  
COUNTY OF Rockland SS.

Before me this 5 day of JUNE, 2013, personally appeared John McWhirter, and proved to me through satisfactory evidence of identity which was personally known to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

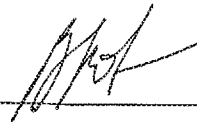
NOTARY PUBLIC

Name: Janice A. White  
My Commission Expires: 12-26-2014

JANICE A. WHITE  
Notary Public - State of New York  
No. 01-WH6052604  
Qualified in Rockland County  
My Commission Expires 12-26-2014

SIGNED this 14 day of June, 2013.

Name: Vera Voronina



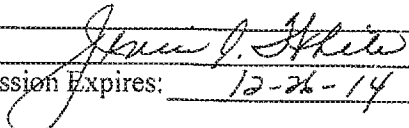
STATE OF NEW YORK SS.

COUNTY OF WESTCHESTER

Before me this 14 day of JUNE, 2013, personally appeared Vera Voronina, and proved to me through satisfactory evidence of identity which was personally known to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

Name:



My Commission Expires:

12-26-14

JANICE A. WHITE  
Notary Public - State of New York  
No. 01-WH6052604  
Qualified in Rockland County  
My Commission Expires 12-26-2014

SIGNED this 26 day of JUNE, 2013.

[Signature]  
Name: Faith Harris

STATE OF New York SS.  
COUNTY OF Rockland

Before me this 26 day of June, 2013, personally appeared Faith Harris, and proved to me through satisfactory evidence of identity which was PERSONALLY KNOWN to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.

NOTARY PUBLIC

Name: [Signature]  
My Commission Expires: 12-26-2014

JANICE A. WHITE  
Notary Public - State of New York  
No. 01-WH6052604  
Qualified in Rockland County  
My Commission Expires 12-26-2014

  
Name: Sean Stevens

5/29/13  
Date

Witness Signature:

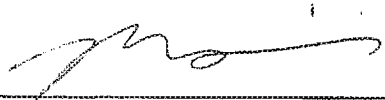
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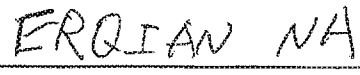
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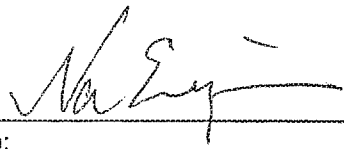
\_\_\_\_\_  
Date

  
Name: Yingzi Xue


06/17/2013  
Date

Witness Signature:  
  
Name (please print):

6/17/13  
Date

Witness Signature:  
  
Name (please print):

6/17/13  
Date

WITNESS SIGNATURE:  
  
NAME Amanda Pasquale

6/17/13  
DATE