

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4559927

<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	08/14/2017
ANDREW J. MURPHY	08/14/2017
CHUNGUANG GUO	08/17/2017
NATASHA LEVENKOVA	08/12/2017
NAXIN TU	08/10/2017
JOHN MCWHIRTER	08/10/2017
VERA VORONINA	08/10/2017
FAITH HARRIS	08/14/2017
<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:	15612625
<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>	10166US01
<b>NAME OF SUBMITTER:</b>	PATRICK FITZGERALD
<b>SIGNATURE:</b>	/PATRICK FITZGERALD/

PATENT

**DATE SIGNED:**

08/22/2017

**Total Attachments: 24**

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**ASSIGNMENT**

**WHEREAS, WE, Lynn MACDONALD**, residing at 16 Franklin Lane, Harrison, New York 10528, a citizen of the United States of America, **Andrew J. MURPHY**, residing at 10 Newton Court, Croton-on-Hudson, New York 10520, a citizen of the United States of America, **Chunguang GUO**, residing at 95 Orchard Street, Thornwood, New York 10594, a citizen of China, **Natasha LEVENKOVA**, residing at 4-39 Bryant Place, Fairlawn, New Jersey 07410, a citizen of Ukraine, **Naxin TU**, residing at 514 Washington Avenue, Pleasantville, New York 10570, a citizen of the United States of America, **John MCWHIRTER**, residing at 2152 Crescent Drive, Tarrytown, New York 10591, a citizen of the United States of America, **Vera VORONINA**, residing at 37 1/2 Amos Street, Sleepy Hollow, New York 10591, a citizen of Russia and the United States of America, and **Faith HARRIS**, residing at 321 Florence Street, Mamaroneck, New York 10543, a citizen of the United States of America (HEREINAFTER CALLED "ASSIGNORS"), are inventors of the invention(s) disclosed and/or claimed in the following patent application:

**"NON-HUMAN ANIMALS EXPRESSING EXOGENOUS TERMINAL  
DEOXYNUCLEOTIDYLTRANSFERASE"**

U.S. Serial No. 15/612,625; filed June 2, 2017

**WHEREAS, REGENERON PHARMACEUTICALS, INC.**, a corporation organized and existing under the laws of the State of New York, with offices at 777 Old Saw Mill River Road, Tarrytown, New York 10591-6707, U.S.A. (HEREINAFTER called "ASSIGNEE") is desirous of acquiring our entire right, title and interest in, to, and under said application;

**NOW, THEREFORE**, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, **WE**, said ASSIGNORS, have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over unto said ASSIGNEE, its successors, legal representatives, and assigns, our entire right, title and interest for all countries in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the above-described patent application, and in and to said patent application and all divisions, renewals, continuations, and continuations-in-part thereof, and all Patents which may be

granted thereon and all reexamination certificates, amendments, and reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents utility models, and designs which may hereafter be filed for said inventions in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said patent application under the Patent Laws of the United States or any other country or countries foreign to the United States, the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention, or under any other applicable international agreement or under the domestic laws of the country in which any such patent application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said inventions in any country or countries foreign to the United States and all extensions, renewals, reexamination certificates, amendments, and reissues thereof;

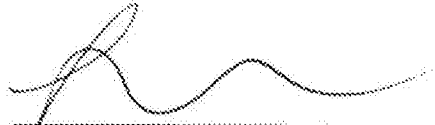
**AND WE HEREBY** authorize and request the Commissioner of Patents and Trademarks of the United States and any Official of any country or countries foreign to the United States whose duty it is to issue patents or other evidence or forms of industrial property protection on application as aforesaid, to issue the same to the said ASSIGNEE, their successors, legal representatives and assigns, in accordance with this instrument;

**AND WE HEREBY** covenant and agree that WE have full right to convey the entire interest hereinafter assigned, and that WE have not executed, and will not execute, any agreement in conflict herewith;

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IN TESTIMONY WHEREOF, WE hereunto set OUR hands and seal the day and year set opposite our signatures.

Date: 8/14/17

  
\_\_\_\_\_  
Lynn MACDONALD

Date: \_\_\_\_\_

\_\_\_\_\_  
Andrew J. MURPHY

Date: \_\_\_\_\_

\_\_\_\_\_  
Chunguang GUO

Date: \_\_\_\_\_

\_\_\_\_\_  
Natasha LEVENKOVA

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\_\_\_\_\_  
Naxin TU

Date: \_\_\_\_\_

\_\_\_\_\_  
John MCWHIRTER

Date: \_\_\_\_\_

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Vera VORONINA

Date: \_\_\_\_\_

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Faith HARRIS

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DEOXYNUCLEOTIDYLTRANSFERASE"**

U.S. Serial No. 15/612,625; filed June 2, 2017

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Lynn MACDONALD

Date: 8/14/17

  
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Andrew J. MURPHY

Date: \_\_\_\_\_

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Chunguang GUO

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\_\_\_\_\_  
John MCWHIRTER

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Vera VORONINA

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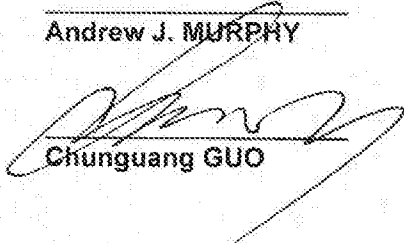
Date: \_\_\_\_\_

\_\_\_\_\_  
Lynn MACDONALD

Date: \_\_\_\_\_

\_\_\_\_\_  
Andrew J. MURPHY

Date: 8.17.2017

  
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\_\_\_\_\_  
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Andrew J. MURPHY

Date: \_\_\_\_\_

\_\_\_\_\_  
Chunguang GUO

Date: 08.12.17

  
\_\_\_\_\_  
Natasha LEVENKOVA

Date: \_\_\_\_\_

\_\_\_\_\_  
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Date: \_\_\_\_\_

\_\_\_\_\_  
Natasha LEVENKOVA

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\_\_\_\_\_  
John MCWHIRTER

Date: \_\_\_\_\_

\_\_\_\_\_  
Vera VORONINA

Date: \_\_\_\_\_

\_\_\_\_\_  
Faith HARRIS

**ASSIGNMENT**

WHEREAS, WE, Lynn MACDONALD, residing at 16 Franklin Lane, Harrison, New York 10528, a citizen of the United States of America, Andrew J. MURPHY, residing at 10 Newton Court, Croton-on-Hudson, New York 10520, a citizen of the United States of America, Chunguang GUO, residing at 95 Orchard Street, Thornwood, New York 10594, a citizen of China, Natasha LEVENKOVA, residing at 4-39 Bryant Place, Fairlawn, New Jersey 07410, a citizen of Ukraine, Naxin TU, residing at 514 Washington Avenue, Pleasantville, New York 10570, a citizen of the United States of America, John MCWHIRTER, residing at <sup>555 Broadway,</sup> ~~2152 Crescent~~ <sub>Hostings On Hudson, New York 10700 JM 08-10-17</sub> Drive, Tarrytown, New York 10591, a citizen of the United States of America, Vera VORONINA, residing at 37 1/2 Amos Street, Sleepy Hollow, New York 10591, a citizen of Russia and the United States of America, and Faith HARRIS, residing at 321 Florence Street, Mamaroneck, New York 10543, a citizen of the United States of America (HEREINAFTER CALLED "ASSIGNORS"), are inventors of the invention(s) disclosed and/or claimed in the following patent application:

**"NON-HUMAN ANIMALS EXPRESSING EXOGENOUS TERMINAL  
DEOXYNUCLEOTIDYLTRANSFERASE"**

U.S. Serial No. 15/612,625; filed June 2, 2017

WHEREAS, REGENERON PHARMACEUTICALS, INC., a corporation organized and existing under the laws of the State of New York, with offices at 777 Old Saw Mill River Road, Tarrytown, New York 10591-6707, U.S.A. (HEREINAFTER called "ASSIGNEE") is desirous of acquiring our entire right, title and interest in, to, and under said application;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, WE, said ASSIGNORS, have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over unto said ASSIGNEE, its successors, legal representatives, and assigns, our entire right, title and interest for all countries in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the above-described patent application, and in and to said patent application and all divisions, renewals, continuations, and continuations-in-part thereof, and all Patents which may be

granted thereon and all reexamination certificates, amendments, and reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents utility models, and designs which may hereafter be filed for said inventions in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said patent application under the Patent Laws of the United States or any other country or countries foreign to the United States, the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention, or under any other applicable international agreement or under the domestic laws of the country in which any such patent application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said inventions in any country or countries foreign to the United States and all extensions, renewals, reexamination certificates, amendments, and reissues thereof;

**AND WE HEREBY** authorize and request the Commissioner of Patents and Trademarks of the United States and any Official of any country or countries foreign to the United States whose duty it is to issue patents or other evidence or forms of industrial property protection on application as aforesaid, to issue the same to the said ASSIGNEE, their successors, legal representatives and assigns, in accordance with this instrument;

**AND WE HEREBY** covenant and agree that WE have full right to convey the entire interest hereinafter assigned, and that WE have not executed, and will not execute, any agreement in conflict herewith;

**AND WE HEREBY** further covenant and agree that WE will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said inventions, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, continuation-in-part, reissue, reexamination, and foreign applications, make all rightful oaths, and generally do everything possible to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said inventions in all countries.

IN TESTIMONY WHEREOF, WE hereunto set OUR hands and seal the day and year  
set opposite our signatures.

Date: \_\_\_\_\_

\_\_\_\_\_  
Lynn MACDONALD

Date: \_\_\_\_\_

\_\_\_\_\_  
Andrew J. MURPHY

Date: \_\_\_\_\_

\_\_\_\_\_  
Chunguang GUO

Date: \_\_\_\_\_

\_\_\_\_\_  
Natasha LEVENKOVA

Date: \_\_\_\_\_

\_\_\_\_\_  
Naxin TU

Date: 8-10-2017

  
\_\_\_\_\_  
John MCWHIRTER

Date: \_\_\_\_\_

\_\_\_\_\_  
Vera VORONINA

Date: \_\_\_\_\_

\_\_\_\_\_  
Faith HARRIS

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granted thereon and all reexamination certificates, amendments, and reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents utility models, and designs which may hereafter be filed for said inventions in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said patent application under the Patent Laws of the United States or any other country or countries foreign to the United States, the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention, or under any other applicable international agreement or under the domestic laws of the country in which any such patent application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said inventions in any country or countries foreign to the United States and all extensions, renewals, reexamination certificates, amendments, and reissues thereof;

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Lynn MACDONALD

Date: \_\_\_\_\_

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Date: \_\_\_\_\_

\_\_\_\_\_  
Chunguang GUO

Date: \_\_\_\_\_

\_\_\_\_\_  
Natasha LEVENKOVA

Date: \_\_\_\_\_

\_\_\_\_\_  
Naxin TU

Date: \_\_\_\_\_

\_\_\_\_\_  
John MCWHIRTER

Date: 8/10/2017

  
\_\_\_\_\_  
Vera VORONINA

Date: \_\_\_\_\_

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Faith HARRIS

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Date: \_\_\_\_\_

\_\_\_\_\_  
John MCWHIRTER

Date: \_\_\_\_\_

\_\_\_\_\_  
Vera VORONINA

Date: 8/14/17

  
\_\_\_\_\_  
Faith HARRIS