

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3483785

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
STEPHANE BANCEL	12/08/2014
WILLIAM JOSEPH ISSA	12/01/2014
JOHN GRANT AUNINS	08/13/2015
TIRTHA CHAKRABORTY	12/02/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MODERNA THERAPEUTICS, INC.
<b>Street Address:</b>	200 TECHNOLOGY SQUARE
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>PCT Number:</b>	US1426835
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)428-7045
<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>	(617) 428-0200
<b>Email:</b>	patentadministrator@clarkelbing.com
<b>Correspondent Name:</b>	CLARK & ELBING LLP
<b>Address Line 1:</b>	101 FEDERAL STREET
<b>Address Line 2:</b>	15TH FLOOR
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	50858-030WO2
<b>NAME OF SUBMITTER:</b>	MICHAEL J. BELLIVEAU, PH.D.
<b>SIGNATURE:</b>	/Michael J. Belliveau, Ph.D./
<b>DATE SIGNED:</b>	08/14/2015
<b>Total Attachments: 5</b>	
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## ASSIGNMENT

For valuable consideration, we,

Full Name of Assignor	City	State (and Country if not USA)
Stephane Bancel	Cambridge	Massachusetts
William Joseph Issa	Cambridge	Massachusetts
John Grant Aunins	Cambridge	Massachusetts
Tirtha Chakraborty	Cambridge	Massachusetts

hereby assign to

Full Name of Assignee	State of Incorporation	Business Address
ModeRNA Therapeutics, Inc.	Delaware	200 Technology Square Cambridge, MA 02139

and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

Title of Application	Filing Date	Serial Number
MANUFACTURING METHODS FOR PRODUCTION OF RNA TRANSCRIPTS	March 13, 2014	PCT/US2014/026835

and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations, and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. This assignment also includes the right to sue for past acts of infringement, whether based on any patents listed herein, patents issuing from applications listed herein, or provisional rights from any patent applications listed herein.

IN WITNESS WHEREOF, I hereto set my hand and seal at Moderna Therapeutics,  
this 8 day of December, 2014.

S. Bancel  
Stephane BANCEL

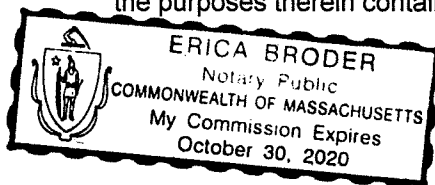
L.S.

STATE OF MA:

:SS.

COUNTY OF Middlesex:

On this 8 day of December, 2014, before me, the undersigned notary public, personally appeared **Stephane BANCEL**, proved to me through satisfactory evidence of identification, which consisted of drivers license, to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



[Notary's Seal Here]

EBroder  
Notary Public

My Commission Expires:

10/30/2020

IN WITNESS WHEREOF, I hereto set my hand and seal at Moderna Therapeutics,  
this 1st day of December, 2014.

William Joseph Issa  
William Joseph ISSA

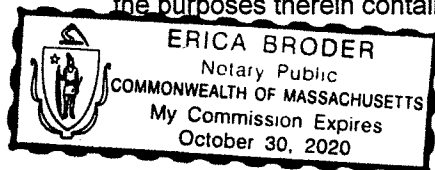
L.S.

STATE OF MA:

:SS.

COUNTY OF Middlesex:

On this 1st day of December, 2014, before me, the undersigned notary public, personally appeared **William Joseph ISSA**, proved to me through satisfactory evidence of identification, which consisted of drivers license, to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



[Notary's Seal Here]

EBroder  
Notary Public

My Commission Expires: 10/30/2020

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,  
this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_. L.S.

**John Grant AUNINS**

STATE OF \_\_\_\_\_:

:SS.

COUNTY OF \_\_\_\_\_:

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, the undersigned notary public, personally appeared **John Grant AUNINS**, proved to me through satisfactory evidence of identification, which consisted of \_\_\_\_\_, to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Modern Therapeutics,  
this 2nd day of December, 2014.

\_\_\_\_\_. L.S.

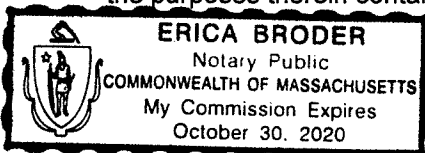
**Tirtha CHAKRABORTY**

STATE OF MA:

:SS.

COUNTY OF Middlesex:

On this 2nd day of December, 2014 before me, the undersigned notary public, personally appeared **Tirtha CHAKRABORTY**, proved to me through satisfactory evidence of identification, which consisted of driver license, to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.



EBroder  
\_\_\_\_\_  
Notary Public

My Commission Expires: 10/30/2020

[Notary's Seal Here]

# ASSIGNMENT

I,

Full Name of Assignor	City	State (and Country if not USA)
John Grant Aurins	Cambridge	Massachusetts

hereby assign to

Full Name of Assignee	State of Incorporation	Business Address
Moderna Therapeutics, Inc.	Delaware	200 Technology Square Cambridge, MA 02139

and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

Title of Application	Filing Date	Serial Number	Attorney Docket No.
MANUFACTURING METHODS FOR PRODUCTION OF RNA TRANSCRIPTS	March 13, 2014	PCT/US2014/026835	50858-030WO2
CHARACTERIZATION OF MRNA MOLECULES	March 14, 2014	PCT/US2014/028276	50858-033WO2

and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations, and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. This assignment also includes the right to sue for past acts of infringement, whether based on any patents listed herein, patents issuing from applications listed herein, or provisional rights from any patent applications listed herein.

IN WITNESS WHEREOF, I hereto set my hand at CAMBRIDGE, MA, USA  
this 13 day of AUGUST, 2015  
John Grant Aunins L.S.

Jacquelyne Wilson  
WITNESSED BY

Jacquelyne Wilson  
PRINTED NAME