

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6559612

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MARK K. SCHLEGEL	09/26/2019
MAJA JANAS	12/16/2020
VASANT R. JADHAV	10/24/2019
DONALD FOSTER	12/17/2020
MUTHIAH MANOHARAN	09/17/2019
KALLANTHOTTATHIL G. RAJEEV	06/05/2020
ALEXANDER V. KEL'IN	02/09/2021
KLAUS CHARISSE	09/17/2019
JAYAPRAKASH K. NAIR	10/04/2019
MARTIN A. MAIER	09/17/2019
SHIGEO MATSUDA	12/21/2020
MUTHUSAMY JAYARAMAN	02/09/2021
ALFICA SEHGAL	01/15/2021
CHRISTOPHER BROWN	01/04/2021
KEVIN FITZGERALD	10/23/2020
STUART MILSTEIN	09/16/2019
RECEIVING PARTY DATA	
Name:	ALNYLAM PHARMACEUTICALS, INC.
Street Address:	300 THIRD STREET
Internal Address:	3RD FLOOR
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16420263
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent</i>	
PATENT	

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 6174496500
Email: fkatsikis@mccarter.com
Correspondent Name: MCCARTER AND ENGLISH, LLP
Address Line 1: 675 WEST KENDALL STREET
Address Line 2: HENRI A. TERMEER SQUARE
Address Line 4: BOSTON, MASSACHUSETTS 02110

ATTORNEY DOCKET NUMBER:	121301-07802
--------------------------------	--------------

NAME OF SUBMITTER:	DEBORAH L. NAGLE, PH.D.
---------------------------	-------------------------

SIGNATURE:	/Deborah L. Nagle/
-------------------	--------------------

DATE SIGNED:	02/19/2021
---------------------	------------

Total Attachments: 17

source=121301_07802_Full_Executed_Assignment#page1.tif
source=121301_07802_Full_Executed_Assignment#page2.tif
source=121301_07802_Full_Executed_Assignment#page3.tif
source=121301_07802_Full_Executed_Assignment#page4.tif
source=121301_07802_Full_Executed_Assignment#page5.tif
source=121301_07802_Full_Executed_Assignment#page6.tif
source=121301_07802_Full_Executed_Assignment#page7.tif
source=121301_07802_Full_Executed_Assignment#page8.tif
source=121301_07802_Full_Executed_Assignment#page9.tif
source=121301_07802_Full_Executed_Assignment#page10.tif
source=121301_07802_Full_Executed_Assignment#page11.tif
source=121301_07802_Full_Executed_Assignment#page12.tif
source=121301_07802_Full_Executed_Assignment#page13.tif
source=121301_07802_Full_Executed_Assignment#page14.tif
source=121301_07802_Full_Executed_Assignment#page15.tif
source=121301_07802_Full_Executed_Assignment#page16.tif
source=121301_07802_Full_Executed_Assignment#page17.tif

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

ALNYLAM PHARMACEUTICALS, INC.
300 Third Street
3rd Floor
Cambridge, MA 02142
United States of America

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

SERPINA1 iRNA COMPOSITIONS AND METHODS OF USE THEREOF

as set forth in the following Patent Application:

U.S. Patent Application No. 16/420,263, filed May 23, 2019
International Application No. PCT/US2017/062701, filed November 21, 2017

which claims the benefit of the following applications:

U.S. Provisional Application No. 62/425,907, filed November 23, 2016
U.S. Provisional Application No. 62/548,589, filed August 22, 2017
U.S. Provisional Application No. 62/549,099, filed August 23, 2017
U.S. Provisional Application No. 62/561,514, filed September 21, 2017

Including (a) all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions, (b) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (c) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (d) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

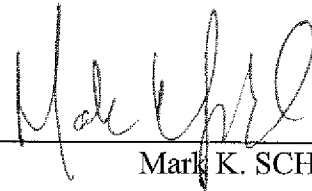
ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **McCarter & English, LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **McCarter & English, LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.



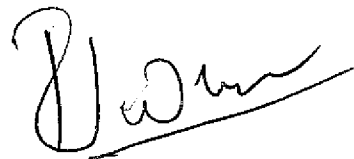
Mark K. SCHLEGEL

Date:

9/26/2019

Maja JANAS

Date:




Vasant R. JADHAV

Date:

24. Oct - 2019

Mark K. SCHLEGEL

Date: _____



Maja JANAS

Date: 16 DEC 2020

Vasant R. JADHAV

Date: _____

Donald FOSTER

Date: _____

X
Date:

9/17/2019

X

Muthiah MANOHARAN

Kallanthottathil G. RAJEEV

Date: _____



Donald FOSTER

Date: 17 DEC 2020

Muthiah MANOHARAN

Date: _____

Kallanthottathil G. RAJEEV


Date: _____

Donald FOSTER

Date: _____

Muthiah MANOHARAN

Date: _____



Kallanthottathil G. RAJEEV

X

Date: June 5, 2020

X



Alexander V. KELIN

Date: 02.09.2021

Klaus CHARISSE

Date: _____

Jayaprakash K. NAIR

Date: _____

Alexander V. KEL'IN

Date: _____

✓
Date: 17th September, 2019

✓

Klaus CHARISSE

Date: 11 OCT, 2019

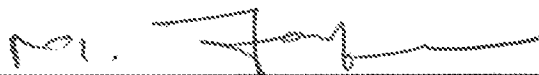
Jayaprakash K. NAIR

Martin A. MAIER


Date: _____

Shigeo MATSUDA

Date: _____



Muthusamy JAYARAMAN

 Date: 09 Feb 2021

8 Mart Maier
Martin A. MAIER

Date: 8 Sept. 17, 2019

Shigeo MATSUDA

Date: _____

Muthusamy JAYARAMAN

Date: _____

Martin A. MAIER

Date: _____

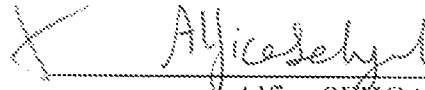


Shigeo MATSUDA


Date: December 21, 2020

Muthusamy JAYARAMAN

Date: _____



Alfica SENIGAL

 Date: Jan 15, 2021

Christopher BROWN

Date: _____

Kevin FITZGERALD

Date: _____

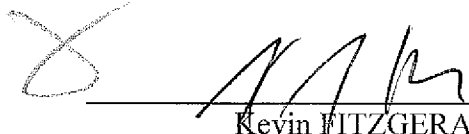
AIN273

Alfica SEHGAL


Date: _____

Christopher BROWN

Date: _____



Kevin FITZGERALD

Date:  10/23 / 2020

Alfira SEHGAL

Date: _____

Christopher BROWN

Date: 1/4/21

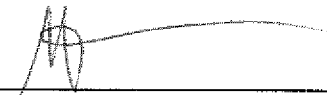
Kevin FITZGERALD

Date: _____



Stuart MILSTEIN

Date: 9/16/19



ALNYLAM PHARMACEUTICALS, INC.

Date: 5 November 2020

Steven Bossone