

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7760059

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	LEILA NOETZLI	01/20/2023
	JAMES D. MCININCH	12/02/2022
	FREDERIC TREMBLAY	11/11/2022
	MARK K. SCHLEGEL	11/29/2022
	ADAM CASTORENO	11/29/2022
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PROPERTY NUMBERS Total: 2		
	Property Type	Number
	Application Number:	18060990
	PCT Number:	US2022016890
CORRESPONDENCE DATA		
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NAME OF SUBMITTER:	DEBORAH L. NAGLE, PH.D.	
SIGNATURE:	/Deborah L. Nagle/	
DATE SIGNED:	01/25/2023	

Total Attachments: 7

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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 hereby sells, assigns, and transfers, unto

Alnylam Pharmaceuticals, Inc.
675 West Kendall Street
Henri A. Termeer Square
Cambridge, Massachusetts 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

KETOHEXOKINASE (KHK) iRNA COMPOSITIONS AND METHODS OF USE THEREOF

as set forth in the following Patent Applications:

International Application No. PCT/US2022/016890, filed February 18, 2022
Argentine Patent Application No. _____, filed February 18, 2022
Taiwanese Patent Application No. _____, filed February 18, 2022

which claim the benefit of the following Applications:

United States Provisional Application No. 63/154,005, filed February 26, 2021
United States Provisional Application No. 63/223,581, filed July 20, 2021
United States Provisional Application No. 63/280,668, filed November 18, 2021

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.

Executed this 20 day of January, 2023

Leila Noetzli

Leila Noetzli

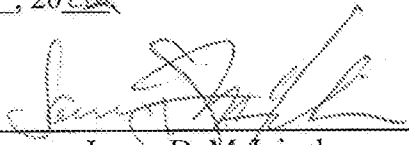
Witness Signature: Shira Tsour
Printed Name: Shira Tsour

Date: 20 Jan 2023

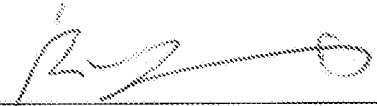
Witness Signature: Eileen P. Odyer
Printed Name: Eileen P. Odyer

Date: 20 Jan 2023

Executed this 2nd day of DECEMBER, 2022


James D. Melninch

Witness Signature:



Date: 12/02/2022

Printed Name:

RUI XIONG

Witness Signature:

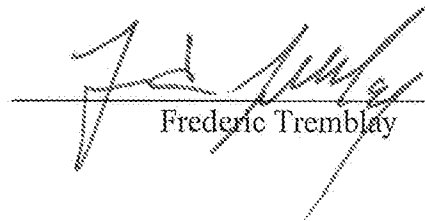


Date: 12/2/2022

Printed Name:

Edwin P. Colgan

Executed this 11 day of November, 2022

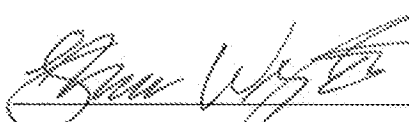


Frederic Tremblay

Witness Signature: 

Printed Name: Morgan Maeder

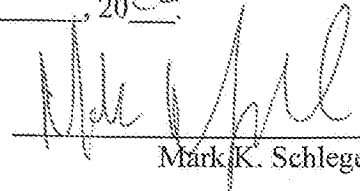
Date: 11/11/22

Witness Signature: 


Printed Name: Shane Wright

Date: 11/11/22

Executed this 29th day of November, 2022.

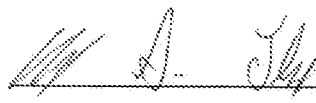

Mark K. Schlegel

Witness Signature:


Printed Name: Dan Benson

Date: 11/29/22

Witness Signature:


Printed Name: Christopher S. Theik

Date: 11/29/2022

Executed this 29th day of November, 2022

ad Castoreno

Adam Castoreno

Witness Signature: Penelope Castoreno

Date: 11/29/22

Printed Name: Penelope Castoreno

Witness Signature: Nicole Castoreno

Date: 11/29/22

Printed Name: Nicole Castoreno