PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KALLANTHOTTATHIL G. RAJEEV	08/09/2017
TRACY ZIMMERMANN	08/28/2017
MUTHIAH MANOHARAN	07/31/2017
MARTIN MAIER	08/02/2017
SATYANARAYANA KUCHIMANCHI	08/22/2017
KLAUS CHARISSE	08/30/2017

RECEIVING PARTY DATA

Name:	ALNYLAM PHARMACEUTICALS, INC.
Street Address:	300 THIRD STREET
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142

PROPERTY NUMBERS Total: 4

Property Type	Number
Application Number:	15706389
Application Number:	16165343
Application Number:	16850555
Application Number:	17848850

CORRESPONDENCE DATA

Fax Number: (202)861-1905

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.

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Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	29520.1086-US-CON4
NAME OF SUBMITTER:	JEFFREY N. TOWNES

PATENT REEL: 064617 FRAME: 0294 508071105

SIGNATURE:	/Jeffrey N. Townes, Reg. # 47,142/	
DATE SIGNED:	08/17/2023	
Total Attachments: 2		
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PATENT REEL: 064617 FRAME: 0295

Filed: May 13, 2014

ASSIGNMENT

Application No. <u>14/358,009</u>

WHEREAS, Kallanthottathil G. RAJEEV, Tracy ZIMMERMANN, Muthiah MANOHARAN, Martin MAIER, Satyanarayana KUCHIMANCHI, and Klaus CHARISSE (hereinafter designated as the undersigned) have invented certain new and useful improvements in MODIFIED RNAi AGENTS for which an application for Letters Patent of the United States of America has been executed by the undersigned, and;

WHEREAS, <u>Alnylam Pharmaceuticals</u>, <u>Inc.</u> of <u>300 Third Street</u>, <u>Cambridge</u>, <u>MA</u> <u>02142</u>, its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefore in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories and for all foreign countries, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefore in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

PATENT REEL: 064617 FRAME: 0296 The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of LeClairRyan the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Date <u>09/2013</u>	SignatureName Kallanthottathil G. RAJEEV
Date <u>08 28 2017</u>	SignatureName_Tracy/ZIMMERMAINN
Date 7/31/2017	Signature Muchiah MANOHARAN
Date <u>08/02/2017</u>	Signature Martin MAIER
Date OS 22 2017	Signature Archivach Name Satyanarayana KUCHIMANCHI
Date <u>08/30/2017</u>	Signature Musica Name Klaus CHARISSE

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