05/21/2015 503317358

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GREGORY HINKLE	11/10/2010
SATYANARAYANA KUCHIMANCHI	11/10/2010
STUART MILSTEIN	11/10/2010
TRACY S. ZIMMERMANN	11/10/2010

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:	61288137
Application Number:	13363493
Application Number:	13363504
Application Number:	14054166

CORRESPONDENCE DATA

Fax Number: (617)871-3392

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.

Phone: 6178717917

Email: beth.obrien@novartis.com

Correspondent Name: NIBR

Address Line 1: 700 MAIN STREET

Address Line 4: CAMBRIDGE, MASSACHUSETTS 02139

ATTORNEY DOCKET NUMBER: PAT053960 INV TO ALNYLAM	
NAME OF SUBMITTER:	BETH O'BRIEN
SIGNATURE: /Beth O'Brien/	
DATE SIGNED:	05/21/2015

PATENT REEL: 035690 FRAME: 0535

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PATENT REEL: 035690 FRAME: 0536



ASSIGNMENT

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, we

Gregory HINKLE	citizen of the United States of America	Alnylam Pharmaceuticals, Inc. 300 Third Street Cambridge, MA 02142 USA
Satyanarayana KUCHIMANCHI	citizen of the United States of America	Alnylam Pharmaceuticals, Inc. 300 Third Street Cambridge, MA 02142 USA
Stuart MILSTEIN	citizen of the United States of America	Alnylam Pharmaceuticals, Inc. 300 Third Street Cambridge, MA 02142 USA
Tracy S. ZIMMERMANN	citizen of the United States of America	Ainylam Pharmaceuticals, Inc. 300 Third Street Cambridge, MA 02142 USA

do hereby sell, assign and transfer to Alnylam Pharmaceuticals, Inc., a company organized under the laws of the United States of America, 300 Third Street, Cambridge, MA 02142, USA, (hereinafter referred to as the "ASSIGNEE") and its successors, assigns and legal representatives, all of my right, title and interest for all countries of the world in and to (1) all of my inventions and discoveries described in the patent application(s) titled

ORGANIC COMPOSITIONS TO TREAT HSF1-RELATED DISEASES

PATENT REEL: 035690 FRAME: 0537 said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said ASSIGNEE and their successors, assigns and legal representatives to the full ends of the terms for which said patents, registrations, confirmations, importation certificates, reexamination certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, as fully and entirely as the same would have been held and enjoyed by us if this sale, assignment and transfer had not been made.

*We hereby authorize ASSIGNEE and their representatives to insert in this Assignment the filing date(s) and Application Number(s) of said patent application(s) when notified thereof.

And we hereby covenant and agree that we will, at any time, (i) upon the request, but at the expense, of ASSIGNEE or their successors, assigns or legal representatives execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, patents, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates and applications within the scope of (8) and (9) in ASSIGNEE or their successors, assigns or legal representatives, including the execution and procurement of all further documents evidencing this sale, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, (ii) upon the request, but at the expense, of ASSIGNEE or their successors, assigns or legal representatives execute all additional patent applications within the scope of (3), (4) and (6) and all applications within the scope of (8) or (9) and (iii) make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of ASSIGNEE or their successors, assigns or legal representatives.

This Assignment is effective as from the earliest priority date as stated above.

Executed this <u></u>	20/0
Executed this day of	L,S.
Gregory HINKLE	
ACKNOWLEDGEMENT	
State of)	
) s.s.::) s.s.::)	
On this day of	, 20 <u> </u> , personally appeared before me
Charmer Bulle	to me known and known by me to be the same person described
in and who executed the foregoing Assigni	ment and acknowledged that (s)he executed the same of his (her)
own free will for the purpose set forth.	1
(Seal)	Jana 1 hou
	Notary Public
	LAURA A. RYAN
	8 5 Employ 505 1873 18
	Cammonwealth of Massachusetts

My Commission Expires
October 14, 2016
PATENT

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Executed this day of _ <u>NOVERIL</u>	<u>4</u> , 20
	L.S.
Satyanarayana KUCHIMANCHI	
ACKNOWLEDGEMENT	
State of	
County of Sex)	
On this day of	2010, personally appeared before me o me known and known by me to be the same person described
in and who executed the foregoing Assignment	ant and acknowledged that (s)he executed the same of his (her)
own free will for the purpose set forth.	<u> </u>
(Seal)	Haur a Roman
Executed this day of	LAURA A. RYAN Notary Public No
ACKNOWLEDGEMENT	
State of	
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Cl. A W Volvisa	, 20∭, personally appeared before me to me known and known by me to be the same person described nent and acknowledged that (s)he executed the same of his (her)
(Seal)	24m/1 box
	Notary Public
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	LAURA A. RYAN Notary Public
	Commonwealth of Massachusett Ny Commission Expire: October 14, 2016

PATENT REEL: 035690 FRAME: 0539

Executed this day of
Trácy S. ZIMMERMANN
ACKNOWLEDGEMENT
State of) s.s.:
County of Milesex)
On this day of
own free will for the purpose set forth.
(Seal)
Notary Public

PATENT REEL: 035690 FRAME: 0540

LAURA A. RYAN
Notary Public
Commonwealth of Massachusetts
My Cammission Expires
October 14, 2016

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to Alnylam Pharmaceuticals, Inc., of an invention entitled "ORGANIC COMPOSITIONS TO TREAT HSF1-RELATED DISEASES" signed by Gregory HINKLE, Satyanarayana KUCHIMANCHI, Stuart MILSTEIN and Tracy S. ZIMMERMANN; this will certify that Alnylam Pharmaceuticals, Inc., accepts such Assignment.

	Alnylam Pharmaceutics	ils, Inc.
Зу:		November 12,2010
Name :	<u>Steve Bassase</u>	
Function :	Y. P Intelectual Property	
Date		LAURA A. KTAN Notary Public
		Commonwealth of Massachusetts My Commission Expires October in., 2016

PATENT REEL: 035690 FRAME: 0541

RECORDED: 05/21/2015