

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4545365

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MUTHIAH MANOHARAN	01/10/2012
KALLANTHOTTATHIL G. RAJEEV	01/10/2012
MUTHUSAMY JAYARAMAN	01/10/2012
DAVID BUTLER	01/03/2012
MICHAEL E. JUNG	12/31/2011
RECEIVING PARTY DATA	
Name:	ALNYLAM PHARMACEUTICALS, INC.
Street Address:	300 THIRD STREET
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15594244
CORRESPONDENCE DATA	
Fax Number:	(952)876-4098
<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>	
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Correspondent Name:	VIKSINIS HARRIS PADYS MALEN LLP
Address Line 1:	7851 METRO PARKWAY
Address Line 2:	SUITE 325
Address Line 4:	BLOOMINGTON, MINNESOTA 55425
ATTORNEY DOCKET NUMBER:	08050.012US3
NAME OF SUBMITTER:	YANG LI
SIGNATURE:	/Yang Li/
DATE SIGNED:	08/10/2017
Total Attachments: 9	

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT by Muthiah MANOHARAN; Kallanthottathil G. RAJEEV; Muthusamy JAYARAMAN; David BUTLER; and Michael E. JUNG (hereinafter referred to as Assignors), residing at 300 Third Street, Cambridge, Massachusetts 02142; 300 Third Street, Cambridge, Massachusetts 02142; 300 Third Street, Cambridge, Massachusetts 02142; 36 Everett St, Medford, Massachusetts 02155; and 300 Third Street, Cambridge, Massachusetts 02142, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in LIPID COMPOSITIONS, set forth in U.S. Patent Application No. 13/318,600, filed November 2, 2011, and International Patent Application No. PCT/US2010/033777, filed May 5, 2010; and

WHEREAS, ALNYLAM PHARMACEUTICALS, INC., a organized under and pursuant to the laws of Delaware having its principal place of business at 300 Third Street, Cambridge, Massachusetts 02142 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the

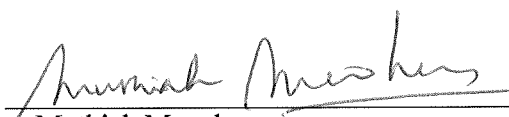
same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

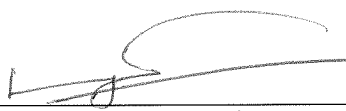
AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

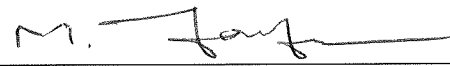
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AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: 1/10/2012 Signature: 
Muthiah Manoharan

Date: 1/10/2012 Signature: 
Kallanthottathil G. Rajeev

Date: 1/10/2012 Signature: 
Muthusamy Jayaraman

Date: _____ Signature: _____
David Butler

Date: _____ Signature: _____
Michael E. Jung

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AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

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Date: _____

Signature: _____
Muthiah Manoharan


Date: _____

Signature: _____
Kallanthottathil G. Rajeev

Date: _____

Signature: _____
Muthusamy Jayaraman

Date: 3rd Jan 2012

Signature:  _____
David Butler

Date: _____

Signature: _____
Michael E. Jung

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Date: _____

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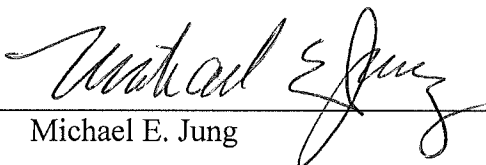
Date: _____

Signature: _____
Muthusamy Jayaraman

Date: _____

Signature: _____
David Butler

Date: 12/31/11

Signature:  _____
Michael E. Jung