

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LAURA COOK BLUMBERG	12/01/2015
DANIEL R. DEAVER	12/01/2015
DAVID J. EYERMAN	12/01/2015
THOMAS ANDREW WYNN	12/01/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ALKERMES PHARMA IRELAND LIMITED
<b>Street Address:</b>	CONNAUGHT HOUSE
<b>Internal Address:</b>	1 BURLINGTON ROAD
<b>City:</b>	DUBLIN 4
<b>State/Country:</b>	IRELAND
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16363465
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(857)300-4001
<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>	
<b>Phone:</b>	857-300-4003
<b>Email:</b>	bostonpatent@lathropgagel.com,dvincent@lathropgagel.com,dpstein@lathropgagel.com
<b>Correspondent Name:</b>	BRIAN C. TRINQUE
<b>Address Line 1:</b>	LATHROP GAGE LLP
<b>Address Line 2:</b>	28 STATE STREET
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02109
<b>ATTORNEY DOCKET NUMBER:</b>	611407: ALT-009DV4
<b>NAME OF SUBMITTER:</b>	BRIAN C. TRINQUE, PH.D., ESQ.
<b>SIGNATURE:</b>	/BRIAN C. TRINQUE/
<b>DATE SIGNED:</b>	04/27/2019
<b>Total Attachments: 4</b>	
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ASSIGNMENT

WHEREAS, We, **Laura Cook Blumberg** of Lincoln, Massachusetts, a citizen of the United States of America; **Daniel R. Deaver** of Franklin, Massachusetts, a citizen of the United States of America; **David J. Eyerman** of Wayland, Massachusetts, a citizen of the United States of America; and **Thomas Andrew Wynn** of Lexington, Massachusetts, a citizen of the United States of America have invented certain new and useful

**MORPHAN AND MORPHINAN ANALOGUES, AND METHODS OF USE**

U.S. Serial No. 14/833,334; filed August 24, 2015

for which we are about to make or have made application for Letters Patent of the United States; and

WHEREAS, **ALKERMES PHARMA IRELAND LIMITED**, its principal place of business at Connaught House, 1 Burlington Road, Dublin 4, Ireland, is desirous of acquiring all rights, title and interests in and to said invention, said applications, and in and to any and all Letters Patent which may be granted for or upon said invention and applications in the United States of America and anywhere in the world.

NOW THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, **Laura Cook Blumberg, Daniel R. Deaver, David J. Eyerman, and Thomas Andrew Wynn**, have sold, assigned and transferred, and by these presents to sell, assign and transfer unto the said **ALKERMES PHARMA IRELAND LIMITED**, the full and exclusive right, title and interest, throughout the world, in, to and under the following:

- (a) said invention as fully set forth and described in the specification prepared, and executed by us preparatory to obtaining Letters Patent of the United States therefor;
- (b) said applications;
- (c) any and all refilings, divisions, continuations and continuations-in-part of said applications;
- (d) any and all Letters Patent of the United States of America which may issue from said applications, refilings, divisions, continuations and continuations-in-part;

- (e) any and all reissues and reexaminations of said Letters Patent of the United States of America;
- (f) any and all applications for Letters Patent upon said invention which may hereafter be filed in any and all countries foreign to the United States of America;
- (g) any and all refilings, divisions and continuations of said foreign-filed applications;
- (h) all claims, causes of action and damages for past infringement, if any, of said application;
- (i) any and all Letters Patent of countries foreign to the United States of America which may issue from the said foreign-filed applications, refilings, divisions and continuations; and
- (j) any and all extensions of, and additions to, said Letters Patent of countries foreign to the United States of America.

We, **Laura Cook Blumberg, Daniel R. Deaver, David J. Eyerman, and Thomas Andrew Wynn** further agree that upon request we will provide promptly all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to **ALKERMES PHARMA IRELAND LIMITED** or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

ALL of the above shall be held and enjoyed by said **ALKERMES PHARMA IRELAND LIMITED**, for its own use and benefit, and for its successors, legal representatives and assigns, to the full end of the term for which said Letters Patent may be granted, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent in accordance with this Assignment.

This assignment to have effect as of the filing date of August 24, 2015

12/1/15  
Date:

*Laura Cook Blumberg*  
Laura Cook Blumberg

Signed in my presence and acknowledged to be an assignment of the application herein above referred to:

WITNESS

Waltham, MA  
Signed At (City/State)

CINDY SRAGG  
Name

*Cindy Sragg*  
Signature

1 - Dec - 2015  
Date

12/01/15  
Date:

*Daniel R. Deaver*  
Daniel R. Deaver

Signed in my presence and acknowledged to be an assignment of the application herein above referred to:

WITNESS


Waltham, MA  
Signed At (City/State)

CINDY SRAGG  
Name

*Cindy Sragg*  
Signature

1-Dec-2015  
Date

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Date:

  
\_\_\_\_\_  
David J. Eyerman

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CINDY SRAGG  
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\_\_\_\_\_  
Thomas Andrew Wynn

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Cindy Sragg  
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