

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4238572

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOSEPH E. PAYNE	01/13/2017
PADMANABH CHIVUKULA	01/13/2017
PRIYA KARMALI	01/13/2017
STEVEN P. TANIS	01/13/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ARCTURUS THERAPEUTICS, INC.
<b>Street Address:</b>	10628 SCIENCE CENTER DRIVE
<b>Internal Address:</b>	SUITE 200
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15387067
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)568-3439
<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>	(215) 568-3100
<b>Email:</b>	assignments@bakerlaw.com
<b>Correspondent Name:</b>	BAKER & HOSTETLER LLP
<b>Address Line 1:</b>	2929 ARCH STREET
<b>Address Line 2:</b>	12TH FLOOR
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19104-2891
<b>ATTORNEY DOCKET NUMBER:</b>	101845.000045
<b>NAME OF SUBMITTER:</b>	LAURA RAE WORKMAN
<b>SIGNATURE:</b>	/Laura Rae Workman/
<b>DATE SIGNED:</b>	01/23/2017
<b>Total Attachments: 8</b>	

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**ASSIGNMENT**

WHEREAS I, **Joseph E. Payne**, citizen of **Canada**, residing at **San Diego, California**, (“ASSIGNOR”) am an inventor of one or more inventions disclosed, described and/or claimed in U.S. Application Serial No. 15/387,067, filed December 21, 2016, and entitled **IONIZABLE CATIONIC LIPID FOR RNA DELIVERY** (“the subject application”);

AND WHEREAS **Arcturus Therapeutics, Inc.** (“ASSIGNEE”) having a place of business at **10628 Science Center Drive, Suite 200, San Diego, California 92121**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors’ certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable;

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention; that I will testify in any legal proceeding; that I will sign or execute all lawful papers, disclaimers, and divisional, continuing, reissue, and foreign applications, and review all documentation as necessary prior to signing; that I will make all rightful oaths; that I will deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention; and that I will generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

DOCKET NO.: 101845.000045

I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the first paragraph of this assignment.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 13<sup>th</sup> day of January, year of 2017.

Joseph E. Payne  
Joseph E. Payne

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

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STATEMENT OF NOTARY PUBLIC

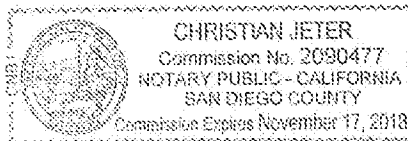
STATE OF California :

: SS

COUNTY OF San Diego :

On this 13<sup>th</sup> day of January, year of 2017, before me personally came the above named Joseph E. Payne to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]  
Notary Public



**ASSIGNMENT**

WHEREAS I, **Padmanabh Chivukula**, citizen of **the United States of America**, residing at **San Diego, California**, (“ASSIGNOR) am an inventor of one or more inventions disclosed, described and/or claimed in U.S. Application Serial No. 15/387,067, filed December 21, 2016, and entitled **IONIZABLE CATIONIC LIPID FOR RNA DELIVERY** (“the subject application”);

AND WHEREAS **Arcturus Therapeutics, Inc.** (“ASSIGNEE) having a place of business at **10628 Science Center Drive, Suite 200, San Diego, California 92121**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors’ certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable;

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

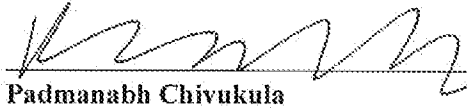
AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention; that I will testify in any legal proceeding; that I will sign or execute all lawful papers, disclaimers, and divisional, continuing, reissue, and foreign applications, and review all documentation as necessary prior to signing; that I will make all rightful oaths; that I will deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention; and that I will generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

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IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 13 day of January, year of 2017.

  
Padmanabh Chivukula

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STATEMENT OF NOTARY PUBLIC

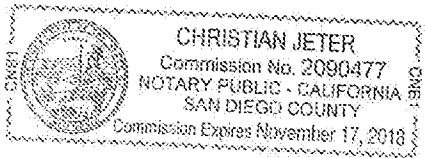
STATE OF California :

: SS

COUNTY OF San Diego :

On this 13<sup>th</sup> day of January, year of 2017, before me personally came the above named **Padmanabh Chivukula** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

  
Notary Public



**ASSIGNMENT**

WHEREAS I, **Priya Karmali**, citizen of **India**, residing at **San Diego, California**, (“ASSIGNOR”) am an inventor of one or more inventions disclosed, described and/or claimed in U.S. Application Serial No. 15/387,067, filed December 21, 2016, and entitled **IONIZABLE CATIONIC LIPID FOR RNA DELIVERY** (“the subject application”);

AND WHEREAS **Arcturus Therapeutics, Inc.** (“ASSIGNEE”) having a place of business at **10628 Science Center Drive, Suite 200, San Diego, California 92121**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors’ certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable;

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

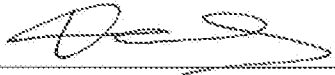
AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention; that I will testify in any legal proceeding; that I will sign or execute all lawful papers, disclaimers, and divisional, continuing, reissue, and foreign applications, and review all documentation as necessary prior to signing; that I will make all rightful oaths; that I will deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention; and that I will generally do everything possible to aid the ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

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IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 13 day of January, year of 2017.

  
\_\_\_\_\_  
Priya Karmali

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**STATEMENT OF NOTARY PUBLIC**

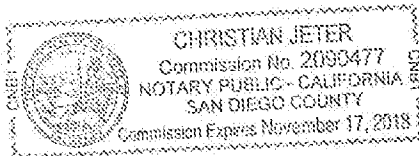
STATE OF California \_\_\_\_\_:

: SS

COUNTY OF San Diego \_\_\_\_\_:

On this 13<sup>th</sup> day of January, year of 2017, before me personally came the above named **Priya Karmali** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

  
\_\_\_\_\_  
Notary Public





**ASSIGNMENT**

WHEREAS I, **Steven P. Tanis**, citizen of **the United States of America**, residing at **Carlsbad, California**, (“ASSIGNOR) am an inventor of one or more inventions disclosed, described and/or claimed in U.S. Application Serial No. 15/387,067, filed December 21, 2016, and entitled **IONIZABLE CATIONIC LIPID FOR RNA DELIVERY** (“the subject application”);

AND WHEREAS **Arcturus Therapeutics, Inc.** (“ASSIGNEE) having a place of business at **10628 Science Center Drive, Suite 200, San Diego, California 92121**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors’ certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable;

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\_\_\_\_\_  
Steven P. Tanis

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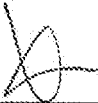
**STATEMENT OF NOTARY PUBLIC**

STATE OF California :

: SS

COUNTY OF San Diego :

On this 13th day of January, year of 2017, before me personally came the above named Steven P. Tanis to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

  
\_\_\_\_\_  
Notary Public

