

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5174156

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHRISTOPHER P BOUCHER	06/29/2017
DAVID ROE	06/29/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INFACARE PHARMACEUTICAL CORPORATION
<b>Street Address:</b>	8 NESHAMINY INTERPLEX
<b>Internal Address:</b>	SUITE 221
<b>City:</b>	TREVOSE
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19053
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16125190
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(816)421-5547
<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>	8164746550
<b>Email:</b>	mboconnor@shb.com
<b>Correspondent Name:</b>	SHOOK, HARDY & BACON, L.L.P.
<b>Address Line 1:</b>	2555 GRAND BLVD
<b>Address Line 4:</b>	KANSAS CITY, MISSOURI 64108
<b>ATTORNEY DOCKET NUMBER:</b>	12653.317377
<b>NAME OF SUBMITTER:</b>	ROBERT D. CHISHOLM
<b>SIGNATURE:</b>	/Robert D. Chisholm/
<b>DATE SIGNED:</b>	10/04/2018
<b>Total Attachments: 10</b>	
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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4507631

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHRISTOPHER P. BOUCHER	06/29/2017
DAVID ROE	06/29/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INFACARE PHARMACEUTICAL CORPORATION
<b>Street Address:</b>	8 NESHAMINY INTERPLEX
<b>Internal Address:</b>	SUITE 221
<b>City:</b>	TREVOSE
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19053
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15603654
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)281-0717
<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>	4124545000
<b>Email:</b>	docketingpgh@pepperlaw.com
<b>Correspondent Name:</b>	PEPPER HAMILTON LLP
<b>Address Line 1:</b>	500 GRANT STREET
<b>Address Line 2:</b>	SUITE 5000
<b>Address Line 4:</b>	PITTSBURGH, PENNSYLVANIA 15219
<b>ATTORNEY DOCKET NUMBER:</b>	137240.00731
<b>NAME OF SUBMITTER:</b>	N. NICOLE STAKLEFF, REG. NO. 50229
<b>SIGNATURE:</b>	/N Nicole Stakleff/
<b>DATE SIGNED:</b>	07/18/2017
<b>Total Attachments: 8</b>	
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**PATENT**

**REEL: 043029 FRAME: 0688**

## A S S I G N M E N T

WHEREAS, I, CHRISTOPHER P. BOUCHER (hereinafter "Assignor"), am an inventor of a certain new and useful invention(s) as set forth and disclosed in the patent application(s) listed in Schedule A attached hereto (hereinafter the "Invention"):

WHEREAS, INFACARE PHARMACEUTICAL CORPORATION having an address of 8 Neshaminy Interplex, Suite 221, Trevose, PA 19053 (hereinafter "Assignee"), is desirous of acquiring Assignor's entire right, title and interest in and to said Invention and in and to any and all Letters Patent of the United States and foreign countries that may be obtained therefor.

WHEREAS, Assignor conveyed to Assignee all of Assignor's right, title, and interest in the Invention pursuant to Assignor's obligations under the Assignment of April 6, 2011.

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, at least as of March 30, 2011, Assignor does hereby confirm Assignor's previous assignment and does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns, Assignor's entire right, title and interest in and to said Invention as set forth in the scheduled application(s), including any applications which claim priority to the scheduled application(s), any application(s) to which the scheduled application(s) claim priority, and any continuations, continuations-in-part, divisions, registrations, reissues, re-examinations or extensions thereof, whether in the U.S. or any foreign country, and in and to any and all patents of the United States and foreign countries which may be issued for said Invention;

AND for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns all rights to claim priority rights deriving from the Invention and scheduled application(s); all causes of action and remedies related to the Invention and scheduled application(s) (including, without limitation, the right to sue for past, present, or future infringement, misappropriation or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and any and all other rights and interests arising out of, in connection with, or in relation to the Invention and scheduled application(s).

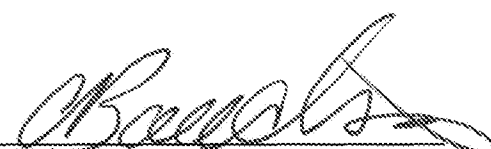
UPON SAID CONSIDERATION, Assignor shall not execute any writing or do any act whatsoever conflicting with the terms and conditions of this Assignment, and that Assignor will, at any time upon request, without further or additional consideration, but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect Assignee's enjoyment of this grant, and render all necessary assistance in making application for or obtaining original patents or applications, continuations, continuations-in-part, divisions, registrations, reissues, re-examinations or extensions thereof, whether in the U.S. or any foreign country, for said Invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any and all proceedings or transactions involving such applications or patents, and by executing preliminary statements and other

affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of Assignor and Assignee.

The undersigned hereby grant(s) the firm of PEPPER HAMILTON LLP the power to insert on this Assignment any further identification, including the country, application number, filing date and/or title, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other patent office for recordation of this document; and

The undersigned requests that any patents that may be issued for said Invention be issued to said Assignee, its legal representatives, successors or assigns, as an owner of my entire right, title and interest in and to said patent and the Invention covered thereby.

Date: 29-June-2017

Assignor: 

CHRISTOPHER P. BOUCHER

ACKNOWLEDGMENT


COUNTRY OF CANADA )

SS:

STATE/Region PROVINCE OF ONTARIO )

On this 29 day of JUNE, 2017, before me, a Notary Public, the undersigned officer, personally appeared CHRISTOPHER P. BOUCHER to me known (or satisfactorily proven) to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

SEAL

Notary Public 

My commission expires NO EXPIRY DATE

Agreed and accepted:

INFACARE PHARMACEUTICAL CORPORATION

Date: July 10, 2017

Assignee: [Signature]  
 By: E. Ronald Goldfuss  
 Title: Chief Financial Officer  
InfoCare Pharmaceutical Corporation

**ACKNOWLEDGMENT**

STATE OF Pennsylvania )  
 )  
 COUNTY OF Bucks ) SS:

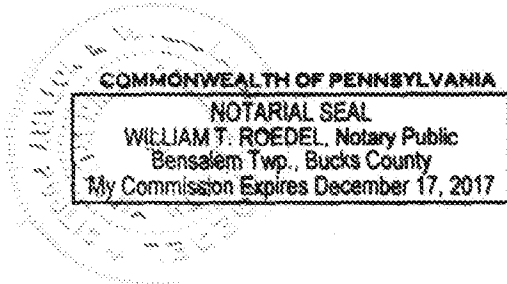
On this 10th day of July, 2017, before me, a Notary Public, the undersigned officer, personally appeared E. Ronald Goldfuss, to me known (or satisfactorily proven) to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

SEAL

Notary Public

William T. Roedel

My commission expires December 17, 2017



## SCHEDULE A

Country	Patent Application No.	Filing Date	Title	Inventor
US	61/469,791	03-30-2011	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	CHRISTOPHER P. BOUCHER DAVID ROE
US	61/469,792	03-30-2011	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	CHRISTOPHER P. BOUCHER DAVID ROE
US	61/532,301	09-08-2011	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	CHRISTOPHER P. BOUCHER DAVID ROE
US	13/435,868	03-30-2012	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	CHRISTOPHER P. BOUCHER DAVID ROE
US	14/253,710	04-15-2014	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	CHRISTOPHER P. BOUCHER DAVID ROE
US	14/875,141	10-05-2015	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	CHRISTOPHER P. BOUCHER DAVID ROE
US	15/603,654	05-24-2017	METHODS FOR SYNTHESIZING METAL MESOPORPHYRINS	CHRISTOPHER P. BOUCHER DAVID ROE



## ASSIGNMENT

WHEREAS, I, DAVID ROE (hereinafter "Assignor"), am an inventor of a certain new and useful invention(s) as set forth and disclosed in the patent application(s) listed in Schedule A attached hereto (hereinafter the "Invention"):

WHEREAS, INFACARE PHARMACEUTICAL CORPORATION having an address of 8 Neshaminy Interplex, Suite 221, Trevose, PA 19053 (hereinafter "Assignee"), is desirous of acquiring Assignor's entire right, title and interest in and to said Invention and in and to any and all Letters Patent of the United States and foreign countries that may be obtained therefor.

WHEREAS, Assignor conveyed to Assignee all of Assignor's right, title, and interest in the Invention pursuant to Assignor's obligations under the Assignment of April 6, 2011.

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, at least as of March 30, 2011, Assignor does hereby confirm Assignor's previous assignment and does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns, Assignor's entire right, title and interest in and to said Invention as set forth in the scheduled application(s), including any applications which claim priority to the scheduled application(s), any application(s) to which the scheduled application(s) claim priority, and any continuations, continuations-in-part, divisions, registrations, reissues, re-examinations or extensions thereof, whether in the U.S. or any foreign country, and in and to any and all patents of the United States and foreign countries which may be issued for said Invention;


AND for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns all rights to claim priority rights deriving from the Invention and scheduled application(s); all causes of action and remedies related to the Invention and scheduled application(s) (including, without limitation, the right to sue for past, present, or future infringement, misappropriate or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and any and all other rights and interests arising out of, in connection with, or in relation to the Invention and scheduled application(s).

UPON SAID CONSIDERATION, Assignor shall not execute any writing or do any act whatsoever conflicting with the terms and conditions of this Assignment, and that Assignor will, at any time upon request, without further or additional consideration, but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect Assignee's enjoyment of this grant, and render all necessary assistance in making application for or obtaining original patents or applications, continuations, continuations-in-part, divisions, registrations, reissues, re-examinations or extensions thereof, whether in the U.S. or any foreign country, for said Invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any and all proceedings or transactions involving such applications or patents, and by executing preliminary statements and other

affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of Assignor and Assignee.

The undersigned hereby grant(s) the firm of PEPPER HAMILTON LLP the power to insert on this Assignment any further identification, including the country, application number, filing date and/or title, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other patent office for recordation of this document; and

The undersigned requests that any patents that may be issued for said Invention be issued to said Assignee, its legal representatives, successors or assigns, as an owner of my entire right, title and interest in and to said patent and the Invention covered thereby.

Date: 29-JUN-2017Assignor: 

DAVID ROE

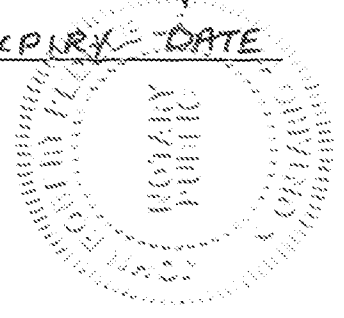
**ACKNOWLEDGMENT**COUNTRY OF CANADA )

SS:

STATE/Region PROVINCE OF ONTARIO )

On this 29 day of JUNE, 2017, before me, a Notary Public, the undersigned officer, personally appeared DAVID ROE to me known (or satisfactorily proven) to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

S E A L

Notary Public My commission expires NO EXPIRY DATE

Agreed and accepted:

INFACARE PHARMACEUTICAL CORPORATION

Date: July 10, 2017Assignee: [Signature]

By:

Title:

E. Ronald Goldfuss  
Chief Financial Officer  
Infacare Pharmaceutical Corporation

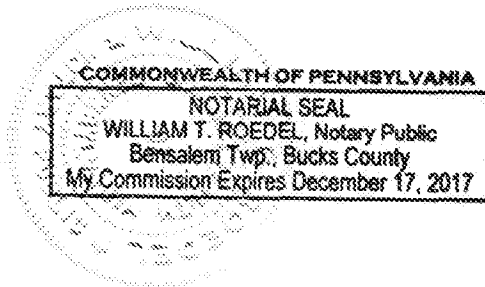
ACKNOWLEDGMENTSTATE OF Pennsylvania )COUNTY OF Bucks )

SS:

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SEAL

Notary Public

William T. RoedelMy commission expires December 17, 2017

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