

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4505072

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	STRONGBRIDGE BIOPHARMA PLC	07/14/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	CRG SERVICING LLC, AS ADMINISTRATIVE AGENT	
<b>Street Address:</b>	1000 MAIN STREET, SUITE 2500	
<b>City:</b>	HOUSTON	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	77002	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15487731
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(415)693-2222	
<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>	4156932000	
<b>Email:</b>	crhem@cooley.com	
<b>Correspondent Name:</b>	COOLEY LLP	
<b>Address Line 1:</b>	101 CALIFORNIA STREET, 5TH FLOOR	
<b>Address Line 4:</b>	SAN FRANCISCO, CALIFORNIA 94111	
<b>ATTORNEY DOCKET NUMBER:</b>	321831-132	
<b>NAME OF SUBMITTER:</b>	C. RHEM	
<b>SIGNATURE:</b>	/CR/	
<b>DATE SIGNED:</b>	07/14/2017	
<b>Total Attachments: 5</b>		
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## PATENT AND TRADEMARK SECURITY AGREEMENT

WHEREAS, STRONGBRIDGE BIOPHARMA PLC, an Irish public limited company (“**Grantor**”), is party to that certain Security Agreement, dated as of July 14, 2017 (as amended, amended and restated, supplemented or otherwise modified from time to time, the “**Security Agreement**”; capitalized terms used herein without definition shall have the meanings set forth in the Security Agreement), among Grantor, the other Grantors from time to time party thereto and CRG SERVICING LLC, as administrative agent and collateral agent (in such capacities, together with its successors and assigns, the “**Administrative Agent**”), pursuant to which Grantor has granted in favor of Secured Parties a lien on all of its personal property, including without limitation the patents and patent applications listed on **Schedule A** hereto, and the trademarks and trademark applications listed on **Schedule B** hereto; and

WHEREAS, it is a condition to the advance of the loans and other obligations secured by the Security Agreement, that Grantor execute and deliver, and cause to be filed in the U.S. Patent and Trademark Office, this Patent and Trademark Security Agreement;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

As collateral security for the payment in full when due (whether at stated maturity, by acceleration or otherwise) of the Secured Obligations, Grantor hereby pledges and grants to the Administrative Agent for the benefit of the Secured Parties a security interest in all of Grantor’s right, title and interest in, to and under all of the following, as collateral security for the prompt and complete payment and performance when due of all the Secured Obligations (as defined in the Security Agreement):

(i) all patents and patent applications, in each case whether now owned by Grantor or hereafter acquired and whether now existing or hereafter coming into existence, including without limitation those listed on **Schedule A** hereto, including the inventions and improvements described and claimed therein together with the reissues, divisions, continuations, renewals, extensions and continuations in part thereof, all income, royalties, damages and payments now or hereafter due and/or payable with respect thereto, all damages and payments for past or future infringements thereof and rights to sue therefor, and all rights corresponding thereto throughout the world; and

(ii) all of the trademarks, whether now owned or at any time hereafter acquired, of Grantor that are registered with, or for which applications for registration have been filed with, the United States Patent and Trademark Office, including the trademarks listed on **Schedule B** hereto, and all registrations and pending applications associated therewith (excluding any application for registration of a trademark filed on an intent-to-use basis solely to the extent that the grant of a security interest in any such trademark application would materially adversely affect the validity or enforceability of the resulting trademark registration or result in cancellation of such trademark application).

Notwithstanding the foregoing, in the event of any conflict between this Patent and Trademark Security Agreement and the Security Agreement, the Security Agreement shall control.

This Patent and Trademark Security Agreement and the rights and obligations of the parties hereunder shall be governed by, and construed in accordance with, the law of the State of New York, without regard to principles of conflicts of laws that would result in the application of the laws of any other jurisdiction; provided that Section 5-1401 of the New York General Obligations Law shall apply.

[signature to follow]

IN WITNESS WHEREOF, Grantor has caused this Patent and Trademark Security Agreement to be duly executed and delivered as of the day and year first above written.

STRONGBRIDGE BIOPHARMA PLC, as Grantor

By 

Name: A. Brian Davis

Title: Chief Financial Officer

Date: July 14, 2017

[Signature Page to Patent and Trademark Security Agreement - Strongbridge]

**PATENT**  
**REEL: 043012 FRAME: 0142**

**Schedule A**  
**to Patent and Trademark Security Agreement**

**PATENTS AND PATENT APPLICATIONS**

**COR-005**

<b>Title / Owner / Inventor</b>	<b>Country/Number</b>	<b>Status</b>	<b>Action</b>
<b>Pharmaceutical Compositions Of Water Soluble Peptides With Poor Solubility In Isotonic Conditions And Methods For Their Use</b>  <b>Strongbridge Biopharma PLC</b>  <b>Michel Afargan</b>	PCT/IB17/00194	Pending	Awaiting Publication
	US 15/487,731	Pending	Awaiting 1st action

**Schedule B**  
**to Patent and Trademark Security Agreement**

**TRADEMARKS AND TRADEMARK APPLICATIONS**

<b>Trademark</b>	<b>Registration Number (if registered) or Serial Number (if applied for only)</b>	<b>Registration Date (if Registered) or Filing Date (if applied for only)</b>
None		