

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	SCOTT G. PETERSEN	09/27/2018
RECEIVING PARTY DATA		
Name:	LIPOSCIENCES, LLC	
Street Address:	919 NORTH MARKET ST., STE. 950	
City:	WILMINGTON	
State/Country:	DELAWARE	
Postal Code:	19801	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Patent Number:	8691971	
CORRESPONDENCE DATA		
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<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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ATTORNEY DOCKET NUMBER:	TMB-033.US1	
NAME OF SUBMITTER:	TIMOTHY M. BROWN	
SIGNATURE:	/Timothy M. Brown/	
DATE SIGNED:	10/01/2018	
Total Attachments: 2		
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source=Assignment - Petersen to Liposciences#page2.tif		

ASSIGNMENT

This assignment is by:

Assignor: **Scott G. Petersen**

Address: 5683 Robusto Rd., San Diego, CA 92124

(referred to in this Assignment as “Assignor”), whose residence and mailing address information is listed above.

This Assignment is to:

Assignee: **LipoSciences, LLC**

Address: 919 North Market St., Ste. 950, Wilmington, DE 19801

A limited liability company duly organized under and pursuant to the laws of: Delaware

(referred to in this Assignment as “Assignee”), which desires to acquire the entire right, title and interest in, to and under the inventions set forth herein.

Assignor has invented certain new and useful inventions in:

SELF DELIVERING BIO-LABILE PHOSPHATE PROTECTED PRO-OLIGOS FOR OLIGONUCLEOTIDE BASED THERAPEUTICS AND MEDIATING RNA INTERFERENCE

for which the following patent applications have been filed and patents issued:

U.S. Provisional Application No. 61/099,501, filed September 23, 2008; International Application No. PCT/US2009/058064, filed September 23, 2009 and published as WO2010/039543; U.S. Non-Provisional Application No. 13/120,409, filed March 22, 2011 and published as US 2011/0294869; and U.S. Patent No. 8,691,971, issued April 8, 2014.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

1. Assignor hereby sells, assigns, transfers and sets over, to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, patents, application for letters patent, any and all provisionals, non-provisionals, divisions, continuations, and continuations-in-part claiming priority to said application or the benefit thereof, substitutions of said applications, and any and all letters patent or patents in the United States of America and all foreign countries or jurisdictions which may be granted therefor and thereon, including, without limitation, any modifications to such letters patent or patents such as through reissue, re-examination or other post-grant proceeding, and any and all extensions of said letters patent or patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee (including any right to institute actions and to recover damages for past, present and future infringement), for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which letters patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

2. Assignor represents, warrants and covenants (a) that, at the time of execution and delivery of this agreement, Assignor is the sole and lawful owner of the entire right, title and interest in and to

said inventions and said application for letters patent, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth in this agreement, or (b) that Assignor solely and lawfully owned the entire right, title and interest in and to said inventions and said application for letters patent, and the same were unencumbered and that Assignor sold, assigned, transferred and set over, to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said inventions and said applications for letters patent.

3. Assignor shall promptly sign and execute all papers and documents, take all lawful oaths, and do all acts necessary, required or useful for the procurement, maintenance, enforcement, defense or otherwise to secure title thereto to the Assignee, at the sole cost and expense of Assignee, its successors, legal representatives and assigns, in each case including, without limitation, arising from or relating to (a) said inventions, or said application for letters patent; (b) any provisional, non-provisional, division, continuation, or continuation-in-part claiming priority thereto or the benefit thereof, or any substitution of any such application, or (c) any letters patent or patents for said inventions in any country or jurisdiction, including without limitation, any modifications to such letters patent or patents such as through reissue, re-examination, or other post-grant proceeding. To be clear, for purposes of this paragraph, "procurement, maintenance, enforcement, defense" shall include, without limitation, any preparation, prosecution, pre-grant proceeding, and post-grant proceeding, whether before a patent office or other administrative body or judicial body with jurisdiction therefor.

4. Assignor hereby authorizes and requests the Commissioner of Patents in the United States to issue the above mentioned letters patent of the United States to Assignee as the assignee of said inventions and the letters patent to be issued thereon for the sole use of Assignee, its successors, legal representatives and assigns.

5. "I hereby grant Assignee's attorney, Timothy M. Brown, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark office for recordation of this document, including the power to insert on this assignment the application number and filing date of any continuing application and patent issuing therefrom, when known."

In witness whereby, executed by the undersigned on the date opposite the undersigned name.

Date: 9/27/2018 1:19:55 PM PDT

Signature: 
Scott G. Petersen