

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3296986

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BIODELIVERY SCIENCES INTERNATIONAL, INC.	01/14/2013
RECEIVING PARTY DATA	
Name:	UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14038810
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ATTORNEY DOCKET NUMBER:	0200.0005-CON4
NAME OF SUBMITTER:	TIMOTHY B. DONALDSON
SIGNATURE:	/Timothy B. Donaldson/
DATE SIGNED:	04/03/2015
Total Attachments: 5	
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PATENT ASSIGNMENT

This Patent Assignment ("Patent Assignment") is made by and between BioDelivery Sciences International, Inc., a corporation organized and existing under the laws of Delaware having a place of business at 801 Corporate Center Drive, Suite 210, Raleigh, North Carolina 27607 ("Assignor" or "BDSI" herein), and the University of Medicine and Dentistry of New Jersey, a body corporate and politic of the State of New Jersey ("Assignee" or "UMDNJ" herein). Collectively, the Assignor and the Assignee are referred to as the "Parties" herein.

WHEREAS, the Assignor desires to assign to Assignee its entire right, title, and interest in and to each of the patents and patent applications listed in Schedule A hereto, which schedule is expressly incorporated as if fully set forth herein (the "BDSI Patent Rights"), and all know-how and other information related thereto;

NOW, THEREFORE, for \$1.00 and other good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged by the Parties, the Parties hereby agree as follows:

1. **Assignment.** The Assignor hereby irrevocably sells, assigns, transfers, conveys, and sets over, to the Assignee, its successors, heirs, assigns, and legal representatives, its entire right, title, and interest in and to the following:

(a) the BDSI Patent Rights set forth in Schedule A hereto; and

(b) all applications for patents, provisional applications, and all patents in the United States of America and all foreign countries granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said applications, reexaminations, reissues and extensions of said patents, and all rights under the International Convention for the Protection of Industrial Property that relate specifically and exclusively to the BDSI Patent Rights set forth in Schedule A hereto.

2. **Effective Date of Assignment.** The Parties agree that irrespective of the date(s) of execution below, the effective date of the assignment herein shall be December 26, 2012.

3. **Confirmations.** The Assignor further hereby covenants that it will, at any time, at the Assignee's request and expense, execute and deliver to the Assignee any new or confirmatory instruments and to perform, at the Assignee's expense, any other acts which the Assignee may reasonably request in order to fully assign and transfer to and vest in the Assignee anywhere in the world, all of the Assignor's right, title and interest in and to the BDSI Patent Rights in Schedule A hereto or other intellectual property or rights as set forth in Sections 1(a) through 1(b) above.

4. **Assignor's Consent.** The Assignor hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the Assignee to claim the aforesaid benefit of the right of priority provided by the

International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

5. Parties Authorized. The Parties hereto each represent and warrant that the individual executing this Patent Assignment on behalf of each Party is duly authorized to do so and bind such Party hereto.


BIODELIVERY SCIENCES INTERNATIONAL, INC. ("ASSIGNOR")

By: [Signature]
Print Name: James A. McNulty
Title: CFO
Date: 1/14/13

STATE OF Florida)
COUNTY OF Hillsborough) SS:

This 14th day of January, 2013 before me personally appeared James A. McNulty by me personally known, who acknowledged the foregoing instrument by him or her subscribed to be his or her free act and deed.

[Signature]
Notary Public



UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY ("ASSIGNEE")

By: [Signature]
Print Name: Denise Mulhern
Title: University CFO
Date: 2/8/13

STATE OF New Jersey)
SS:

COUNTY OF Essex)

This 4th day of February, 2013 before me personally appeared Denise Mulcahy
by me personally known, who acknowledged the foregoing instrument by him or her subscribed
to be his or her free act and deed.

Kathy J. Crow
Notary Public

KATHY J. CROW
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 11/18/2014

SCHEDULE A -- DDSI PATENT RIGHTS

1. United States Patent Application Serial No. 13/215,588 entitled "NANOCOCHLEATE FORMULATIONS, PROCESS OF PREPARATION AND METHOD OF DELIVERY OF PHARMACEUTICAL AGENTS" Filed August 23, 2011.
2. United States Patent Application Serial No. 13/441,630 entitled "NOVEL COCHLEATE FORMULATIONS" Filed April 6, 2012.
3. United States Patent Application Serial No. 12/657,668 entitled "GEODATE DELIVERY VEHICLES" Filed January 25, 2010.
4. United States Patent Application Serial No. 12/653,636 (Publication No. US11/0091523) entitled "COCHLEATE COMPOSITIONS DIRECTED AGAINST EXPRESSION OF PROTEINS" Filed February 11, 2010.
5. United States Patent Application Serial No. 13/298,902 entitled "COCHLEATE COMPOSITIONS DIRECTED AGAINST EXPRESSION OF PROTEINS" Filed November 17, 2011.
6. United States Patent Application Serial No. 11/653,434 (Publication No. US07/0237814) entitled "NOVEL ENCOCHLEATION METHODS, COCHLEATES AND METHODS OF USE" Filed January 11, 2007.
7. United States Patent Application Serial No. 11/578,187 (Publication No. US08/0242625) entitled "NUCLEOTIDE-COCHLEATE COMPOSITIONS AND METHODS OF USE" Filed January 24, 2008.
8. United States Patent Application Serial No. 13/434,282 entitled "NUCLEOTIDE-COCHLEATE COMPOSITIONS AND METHODS OF USE" Filed March 19, 2012.
9. United States Patent Application Serial No. 12/438,266 (Publication No. US10/0178325) entitled "AMPHIPHILIC NUCLEOTIDE COCHLEATE COMPOSITIONS AND METHODS OF USING THE SAME" Filed February 20, 2009.
10. United States Patent Application Serial No. 13/370,158 entitled "AMPHIPHILIC NUCLEOTIDE COCHLEATE COMPOSITIONS AND METHODS OF USING THE SAME" Filed February 9, 2012.
11. PCT Application Serial No. PCT/US00/01684 (Publication No. WO00/42989) entitled "NOVEL HYDROGEL ISOLATED COCHLEATE FORMULATIONS, PROCESS OF PREPARATION AND THEIR USE FOR THE DELIVERY OF BIOLOGICALLY RELEVANT MOLECULES" Filed January 24, 2000 and the following national phase applications, as well as any applications claiming priority thereto and patents issued thereon:

- a. Australian Patent Application Serial No. 32133/00.
 - b. Canadian Patent Application Serial No. 2,358,505.
 - c. European Patent Application Serial No. 2000900961.
 - d. Japanese Patent Application Serial No. 2000594446.
12. PCT Application Serial No. PCT/US03/035136 (Publication No. WO04/41247) entitled "GEODATE DELIVERY VEHICLES" Filed November 3, 2003 and the following national phase applications, as well as any applications claiming priority thereto and patents issued thereon:
- a. Australian Patent Application Serial No. 2003296923.
 - b. Canadian Patent Application Serial No. 2,504,329.
 - c. European Patent Application Serial No. 2003810828.
 - d. Japanese Patent Application Serial No. 2003502267.
13. PCT Application Serial No. PCT/US04/011020 (Publication No. WO04/091572) entitled "COCHLEATE COMPOSITIONS DIRECTED AGAINST EXPRESSION OF PROTEINS" Filed April 9, 2004 and the following national phase applications, as well as any applications claiming priority thereto and patents issued thereon:
- a. European Patent Application Serial No. 2004759369.
 - b. Japanese Patent Application Serial No. 2006509875.
14. PCT Application Serial No. PCT/US04/011026 (Publication No. WO04/091578) entitled "NOVEL ENCOCHLEATION METHODS, COCHLEATES AND METHODS OF USE" Filed April 9, 2004 and the following national phase applications, as well as any applications claiming priority thereto and patents issued thereon:
- a. European Patent Application Serial No. 2004759373.
15. PCT Application Serial No. PCT/US05/012026 (Publication No. WO05/110361) entitled "NUCLEOTIDE-COCHLEATE COMPOSITIONS AND METHODS OF USE" Filed April 11, 2005 and the following national phase applications, as well as any applications claiming priority thereto and patents issued thereon:
- a. Australian Patent Application Serial No. 2005244262.
 - b. Canadian Patent Application Serial No. 2,562,499.
 - c. European Patent Application Serial No. 2005776976.
 - d. Japanese Patent Application Serial No. 2007507542.
 - e. United States Patent Application Serial No. 11/378,187. (Item 7 above)
16. PCT Application Serial No. PCT/US10/023059 (Publication No. WO10/091090) entitled "COCHLEATE COMPOSITIONS AND METHODS OF USE" Filed February 3, 2010.