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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Tuo JIN, Leila ZARIF, Raphael MANNINO

JUN 11 1999



2. Name and address of receiving party(ies)?

Bio Delivery Sciences, Inc.
185 South Orange Avenue, MSB A691
Newark, New Jersey 07103 and

Additional name(s) of conveying party(ies) attached?

yes no

University of Medicine and Dentistry of New Jersey
30 Bergen Street, University Heights
Newark, NJ 07107-3000

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Names
 Other

Additional name(s) & address(es) attached?

yes no

Execution Date: May 10, 1999

4. Application number(s) or patent number(s): 09/235,400

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and registration involved:
1

7. Total Fee (37 CFR 3.41): \$40.00
 Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.
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9. Statement and Signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Susan J. Mack
Susan J. Mack

Reg. No. 30,951

June 11, 1999
Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 3

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PATENT
REEL: 010014 FRAME: 0600

Assignment

Whereas, **Tuo JIN**, **BioDelivery Sciences, Inc.**, **183 So. Orange Avenue**, **Newark, NJ 07103**, **Lata ZARF, Ph.D., MBA** and **Raphael Mannino, Ph.D.**, **BioDelivery Sciences, Inc.**, **183 So. Orange Avenue**, **Newark, NJ 07103**, **Raphael Mannino, Ph.D.**, **22 Victoria Drive**, **Aranoldale, NJ 06801**

respectively, hereinafter called assignor(s), have invented certain improvements in **NOVEL NANOCOCHLEATE FORMULATIONS, PROCESS OF PREPARATION AND METHOD OF DELIVERY OF PHARMACEUTICAL AGENTS** and executed an application for Letters Patent of the United States of America therefor on _____, _____, and _____, respectively;

Whereas, **BioDelivery Sciences, Inc.**, **183 South Orange Avenue, MEB A601**, **Newark, New Jersey 07103** and **University of Medicine and Dentistry of New Jersey**, **39 Bergen Street, University Heights**, **Newark, NJ 07107-3000**

respectively (assignee), desire to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, and if we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and if we hereby agree that the assignee may apply for foreign Letters Patent on the invention and if we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

We hereby authorize and request our attorneys **SUGRUE, MION, ZINN, MACPEAK & SEAS** of **2100 Pennsylvania Avenue, NW, Washington, DC 20037-3212** to insert here in parentheses (Application number 09/235,400, filed January 22, 1999) the filing date and application number of said application when known.

Date: May 10, 1999 
 s/Tuo JIN

Date: May 10, 99 
 s/Lata ZARF, Ph.D., MBA

Date: May 10, 1999 
 s/Raphael MANNINO, Ph.D.

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)