

12/08/04

12-13-2004

Form PTO-1595
(Rev. 10/02)
OMB No. 0651-0027 (exp. 6/30/2005)
Attorney Dkt # 100383.52749

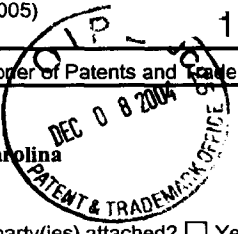


U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

102899156

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

1. Name of conveying party(ies):
Medical University of South Carolina
Additional name(s) of conveying party(ies) attached? Yes No



2. Name and address of receiving party(ies)
Name:
MUSC Foundation for Research Development
261 Calhoun Street
Suite 305
Charleston, SC 29425-29425
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: September 1, 2004;

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:
A. Patent Application No.(s)
**60/484,531
60/498,603
60/505,714
60/564,295
10/883,009**
Additional number(s) attached Yes No

B. Patent Registration No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **Crowell & Moring LLP**
Intellectual Property Group
Internal Address:
**PO Box 14300
Washington
DC
20044-4300**

6. Total number of applications and patents involved 1
7. Total fee (37 CFR 3.41)..... \$200.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number:
05-1323
(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Robin L. Teskin, Reg. No. 35,030
Name of Person Signing
00000065 60484531

Signature

12/8/04
Date

12/10/2004 DBYRHE
01 FC:8021

Total number of pages including cover sheet, attachments, and document: **2**

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patent & Trademarks, Mail Stop Assignment Recordation Services
P.O. Box 1450, Alexandria, VA 22313-1450

ASSIGNMENT

WHEREAS, Medical University of South Carolina, having a place of business at 171 Ashley Avenue, Charleston, SC 29425-2230, (hereinafter termed "Assignor"), owns the entire right, title, and interest in the inventions described below (hereinafter "Said Inventions"),

"USE OF DOUBLE STRANDED RNA GENETIC INTERFERENCE FOR DISEASE CONTROL IN INVERTEBRATES" for which a Provisional Patent Application was filed on July 2, 2003, Serial No. 60/484,531; "METHODS AND COMPOSITIONS FOR INDUCING NON-SPECIFIC AND SPECIFIC IMMUNE RESPONSE IN CRUSTACEANS AND OTHER INVERTEBRATES" for which a Provisional Patent Application was filed on August 29, 2003, Serial No. 60/498,603; "METHODS AND COMPOSITIONS FOR INDUCING NON-SPECIFIC AND SPECIFIC IMMUNE RESPONSES IN CRUSTACEANS AND OTHER INVERTEBRATES" for which a Provisional Patent Application was filed on September 25, 2003, Serial No. 60/505,714; METHODS AND COMPOSITIONS FOR INDUCING NON-SPECIFIC AND SPECIFIC IMMUNE RESPONSES IN CRUSTACEANS AND OTHER INVERTEBRATES" for which a Provisional Patent Application was filed on April 22, 2004, Serial No. 60/564,295; and "DSRNA INDUCED SPECIFIC AND NON-SPECIFIC IMMUNITY IN CRUSTACEANS AND OTHER INVERTEBRATES AND BIODELIVERY VEHICLES FOR USE THEREIN" for which a U.S. Utility Patent Application was filed on July 2, 2004, Serial No. 10/883,009, and

WHEREAS, MUSC Foundation for Research Development, having a place of business at 261 Calhoun Street, Suite 305, Charleston, SC 29425, (hereinafter termed "Assignee"), is desirous of acquiring the Assignor's right, title and interest in and to Said Invention, and in and to any and all patent applications, patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignor to have been received from said Assignee, including the obligations of Assignee to Assignor contained in the Affiliation Agreement and related agreements between the Assignor and Assignee:

1. Said Assignor does hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to Said Inventions; (b) in and to all rights to apply for foreign patents on Said Inventions pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on Said Inventions in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Assignor hereby covenants and agrees to cooperate with said Assignee to enable said Assignee, to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by the Assignor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications,

declarations or other papers, and other assistance all to the extent deemed necessary or desirable by the parties (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering Said Inventions; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving Said Inventions; and (f) for legal proceedings involving Said Inventions and any applications therefore and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon the Assignor, its successors, assigns and other legal representatives.

4. Said Assignor hereby warrants and represents that the Assignor has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Assignor has executed and delivered this instrument to said Assignee this 16th day of April, 2004.

**MUSC FOUNDATION FOR RESEARCH
DEVELOPMENT**

By: [Signature]

Title: Exec Director

**MEDICAL UNIVERSITY OF SOUTH
CAROLINA**

By: [Signature]

Title: VPAA and Provost