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Attorney Docket No: 5199-225

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Andrew R. Marks

Execution Date(s) 12/7/04

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
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2. Name and address of receiving party(ies)

Name: The Trustees of Columbia University in the City

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535 West 116th Street

City: New York

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4. Application or patent number(s):

A. Patent Application No.(s)

10/794,218

☐ This document is being filed together with a new application.
 B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Leslie Gladstone Restaino

Internal Address: Brown Raysman Millstein Felder
& Steiner LLP

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6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

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9. Signature:



Signature

February 11, 2005

Date

Todd A. Holmbo

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

2

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PATENT
REEL: 015919 FRAME: 0586

CH \$40.00 024270 10794218

ASSIGNMENT

Assignment before issue of Letters Patent

Docket No. 5199-225

WHEREAS, I, Andrew R. Marks, a resident of 12 Locust Avenue, Larchmont, New York 10538 USA;

(hereinafter "Assignor") have invented certain new and useful improvements in

TYPE 1 RYANODINE RECEPTOR-BASED METHODS

(hereinafter "invention") for which Assignor is making or has made application for LETTERS PATENT OF

THE UNITED STATES, which application has been duly executed by Assignor on

the day(s) and date(s) of these presents.

AND WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, having its principal offices at: Office of the General Counsel, 412 Low Library, Mail Code 4308, 535 West 116th Street, New York, NY 10027, U.S.A., hereinafter called the Assignee, is desirous of acquiring the entire right, title and interest in and to said invention within the United States of America and its territorial possessions and all foreign countries and any United States or foreign LETTERS PATENT that may be granted therefor.

NOW, THIS INDENTURE WITNESSETH, that for good and valuable considerations, the receipt whereof is hereby acknowledged, Assignor has assigned, sold and transferred, and does hereby assign, sell and transfer to the said Assignee the entire right, title and interest in and to the said invention, within the United States of America and its territorial possessions and all foreign countries and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants, and all divisions, reissues, continuations and extensions thereof that may be granted therefor, and the right to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of said U.S. LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America, all said rights to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors or assigns, to the full end of the term for which said LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. And Assignor does hereby request and authorize the Commissioner of Patents and Trademarks, U.S.A., to issue said U.S. LETTERS PATENT, when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered title to the invention hereby assigned, which title Assignor warrants unto the Assignee, and Assignor further agrees that Assignor will, without demanding any further consideration therefor, at the request but at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign LETTERS PATENT or the like to the said invention, and for maintaining and perfecting the Assignee's right to said invention and LETTERS PATENT particularly in cases of interference, conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand this
Andrew R. Marks

day of December 2004

STATE OF NY

COUNTY OF NY

SS,

On this 7th day of December 2004 before me came

Andrew R. Marks, to me known and known to me to be the individual described in, and who executed the foregoing instrument, and he/she has acknowledged to me that he/she has executed the same.

[SEAL]

AMY L. HABER
 NOTARY PUBLIC, State of New York
 No. 01HAS083858
 Qualified in Queens County

My commission expires:

Notary Public

Commission Expires July 29, 2006