

06-19-2006



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

6-15-06

**1. Name of conveying party(ies):**  
David T. Scadden (11/17/2005), Laura M. Calvi (3/30/2006), Gregor Adams (11/22/2005), and Henry Kronenberg (11/23/2005)  
Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**  
Name: The General Hospital Corporation  
Internal Address: \_\_\_\_\_  
Street Address: \_\_\_\_\_

**3. Nature of conveyance/Execution Date(s):**  
Execution Date(s): in parentheses after inventor name  
 Assignment  Merger  Change of Name  
 Security Agreement  Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

55 Fruit Street  
City: Boston  
State: Massachusetts  
Country: United States of America Zip: 02114  
Additional name(s) & address(es) attached?  Yes  No

**4. Application or patent number(s):**  
A. Patent Application No.(s)  
11/268,971  
Additional numbers attached?  Yes  No

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

**5. Name and address to whom correspondence concerning document should be mailed:**  
Name: Amy M. Leahy  
EDWARDS ANGELL PALMER & DODGE LLP  
Internal Address: Atty. Dkt.: 61925CIP(51588)  
Street Address: P.O. Box 55874  
City: Boston  
State: MA Zip: 02205  
Phone Number: (203) 975-7505  
Fax Number: (617) 439-4170  
Email Address: ALeahy@eapdlaw.com

**6. Total number of applications and patents involved:** 1  
**7. Total fee (37 CFR 1.21(h) & 3.41)** \$ 40.00  
 Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

**9. Signature:**  
Amy M. Leahy  
Signature  
Amy M. Leahy - 47,739  
Name of Person Signing

**8. Payment Information**  
a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
b. Deposit Account Number 04-1105  
Authorized User Name Amy M. Leahy

June 13, 2006  
Date  
Total number of pages including cover sheet, attachments, and documents: 7

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: June 13, 2006 Signature: Denise Kacinski (Denise Kacinski)

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made this 12<sup>th</sup> day of June, 2006, by David T. Scadden; Laura M. Calvi; Gregor Adams; and Henry Kronenberg (hereinafter referred to as Assignors), residing at 62 Lexington Street, Weston, MA 02493, 1128 Clover Street, Rochester, NY 14610, 20 Revere Street, Boston, MA 02114, and 48 Hastings Road, Belmont, MA 02478 respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in PARATHYROID HORMONE RECEPTOR ACTIVATION AND HEMATOPOIETIC PROGENITOR CELL EXPANSION, set forth in a Patent application for Letters Patent of the United States, on November 8, 2005 and allotted application serial number 11/268,971; and

**WHEREAS**, The General Hospital Corporation, a Non-profit Corporation organized under and pursuant to the laws of Massachusetts having its principal place of business at Corporate Sponsored Research & Licensing, Massachusetts General Hospital, 13th Street, Building 149, Suite 5036, Charlestown, Massachusetts 02129 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit

and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals 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:

EDWARDS ANGELL PALMER & DODGE, LLP.

All practitioners at Customer Number 21874

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: 11/17/05

Signature:   
David T. Scadden

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Laura M. Calvi

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Gregor Adams

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Henry Kronenberg

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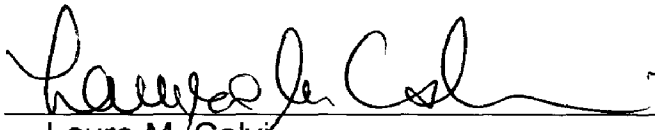
AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

David T. Scadden

Date: 6/12/2006

Signature:   
\_\_\_\_\_

Laura M. Calvi

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Gregor Adams

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Henry Kronenberg

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Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
David T. Scadden

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Laura M. Calvi

Date: 11/22/05 Signature:   
Gregor Adams

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Henry Kronenberg

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Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
David T. Scadden

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Laura M. Calvi

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Gregor Adams

Date: 11-23-05 Signature:   
Henry Kronenberg