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DEPARTMENT OF COMMERCE

(Rev. 6-93) Patent and Trademark Office OMB No. 0651-0011 (exp. 4/94) To the Commissioner for Patents: Please record the attached original documents or copy thereof. Name of conveying party(ies): 1. Name and address of receiving party(ies) Laurie E. Comstock Michael J. Coyne Name: The Brigham and Women's Hospital, Inc. Dennis L. Kasper Arthur O. Tzianabos Internal Address: Katja G. Weinacht Street Address: 75 Francis Street Additional name(s) of conveying party(ies) attached? [] Boston, MA 02115 Yes [X] No Additional name(s) & addresses(es) attached? Nature of conveyance: [] Yes [X] No [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other _____ Execution Date: May 9, 2003, May 21, 2003, and May 22, 2003 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) B. Patent No.(s) 10/388,390 Additional numbers attached? [] Yes [X] No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: [1] Concerning document should be mailed: 7. Total fee (37 CFR 3.41) \$ 40.00 Name: Alan W. Steele, Reg. No. 45,128 Address: Wolf, Greenfield & Sacks, P.C. [X] Enclosed Federal Reserve Plaza 600 Atlantic Avenue [] Authorized to be charged to deposit account Boston, MA 02210 The Commissioner is authorized to charge any deficiencies in the enclosed payment to: 8. Deposit Account No: 23/2825 06/09/2003 DBYRNE 00000019 10388390 01 FC+8021 40.00.00 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. Alan W. Steele

> Total number of pages including cover sheet, attachments, and document: [5] Mail documents to be recorded with required cover sheet information to (modify as appropriate):

Signature

Mail Stop Assignment Recordation Services

Director - U.S. Patent and Trademark Office (when filed separately from a new application) Commissioner of Patents (when filed with a new application) PO Box 1450, Alexandria, VA 22313-1450

PATENT

REEL: 014136 FRAME: 0277

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Reg. No. 45,128 Name of Person Signing

FORM PTO-1595 U.S.

ASSIGNMENT

For good and valuable consideration, the sufficiency of which is hereby acknowledged, we, the undersigned, Laurie E. Comstock residing in Medfield, MA, Michael J. Coyne residing in North Attleboro, MA, Dennis L. Kasper residing in Charlestown, MA and Arthur O. Tzianabos residing in Reading, MA, hereby;

Sell, assign and transfer to **The Brigham and Women's Hospital, Inc.**, a Massachusetts corporation having a place of business at 75 Francis Street, Boston, MA 02115, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office, bearing attorney docket number B00801.70279.US, on March 13, 2003 under Serial No. 10/388,390 and entitled **METHOD FOR OVEREXPRESSION OF ZWITTERIONIC POLYSACCHARIDES**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority;

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, we agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee;

Request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee; and

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

1 1	
5/21/03	Laurie E. Constock
Date / /	Laurie E. Comstock
STATE OF mercolutetto: COUNTY OF middlessy:	
Subscribed and sworn to before me this	215t day of May
SEAL	John H. Mollons Notary Public
	My Commission Expires _5/8/09
5/21/03	life
Date	Michael J Coyne
STATE OF <u>manodustts</u> : COUNTY OF <u>mulliny</u> :	
Subscribed and sworn to before me this	21st day of May
SEAL	John M. Maldons Notary Public
	My Commission Expires 5/8/09
5/24/03	Sum & Jams
Date	Dennis L. Kasper
STATE OF Marson wells: COUNTY OF Middley:	
Subscribed and sworn to before me this	aand day of May
SEAL	Jane G. Moldonis Notary Public
	My Commission Expires 5/8/09

21 May 2003	ah kins
Date	Arthur O. Tzianabos
STATE OF Marshwetts: COUNTY OF millery:	
Subscribed and sworn to before me this _	21st day of May
SEAL	Jone G. Mollons
	Notary Public
	My Commission Expires 5/8/04
	()

ASSIGNMENT

For good and valuable consideration, the sufficiency of which is hereby acknowledged, I, the undersigned, Katja G. Weinacht, residing in Denzlingen, Germany; hereby:

Sell, assign and transfer to The Brigham and Women's Hospital, Inc., a Massachusetts corporation having a place of business at 75 Francis Street, Boston, MA 02115, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office, bearing attorney docket number B00801.70279.US, on March 13, 2003 under Serial No. 10/388,390 and entitled METHOD FOR OVEREXPRESSION OF ZWITTERIONIC POLYSACCHARIDES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority;

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee;

Request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee; and

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

Katja G. Weinacht

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RECORDED: 06/06/2003