

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	Confirmation of Assignment
CONVEYING PARTY DATA	
Name	Execution Date
Howard Hughes Medical Institute through Leonard I. Zon	03/09/2006
RECEIVING PARTY DATA	
Name:	Children's Medical Center Corporation
Street Address:	55 Shattuck Street
City:	Boston
State/Country:	MASSACHUSETTS
Postal Code:	02115
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	10528808
CORRESPONDENCE DATA	
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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Address Line 4:	Boston, MASSACHUSETTS 02110-2131
ATTORNEY DOCKET NUMBER:	701039-53222
NAME OF SUBMITTER:	Rebecca Goodwin
Total Attachments: 3 source=701039-53222#page1.tif source=701039-53222#page2.tif source=701039-53222#page3.tif	

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PATENT  
REEL: 018642 FRAME: 0301

CONFIRMATION OF ASSIGNMENT

Confirmation of Assignment by Howard Hughes Medical Institute (the "Institute") to The Children's Medical Center Corporation (the "Hospital"), through Leonard I. Zon, MD, an investigator employed by the Institute.

WHEREAS, the Institute and the Hospital collaborate in the active conduct of medical research pursuant to an Agreement between them dated as of January 1, 1987 (the "Agreement");


WHEREAS, pursuant to the Agreement, the Institute has agreed to assign to the Hospital the Institute's rights with respect to inventions, discoveries, improvements, and other intellectual property, whether patentable or copyrightable (each a "subject property"), conceived or reduced to practice in the course of the research program conducted under the Agreement by employees of the Institute;

WHEREAS, research conducted pursuant to the Agreement by Dr. Zon while employed at the Hospital by the Institute resulted in the invention of a certain subject property entitled "Hematopoietic Stem Cell Induction By Cdx4," with respect to which a patent application entitled "Method Of Enhancing Proliferation And/Or Hematopoietic Differentiation Of Stem Cells" was filed in the United States Patent and Trademark Office on March 23, 2005 with serial number 10/528,808 (the "Invention"); and

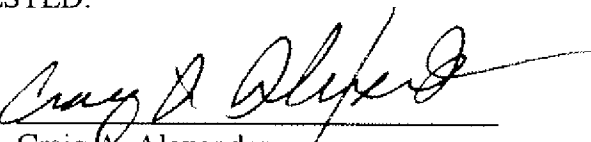
WHEREAS, in connection with the pursuit of the patent application, it is desirable to confirm that the Institute's rights in the Invention by reason of the research program conducted at the Hospital have been validly assigned to the Hospital by and through the assignment of Dr. Zon dated May 9, 2005.

NOW, THEREFORE, the Institute hereby confirms that the Institute's rights in the Invention by reason of the research program conducted at the Hospital have been validly assigned to the Hospital by and through the assignment of Dr. Zon dated May 9, 2005

Executed March 9, 2006 HOWARD HUGHES MEDICAL INSTITUTE

By:   
David A. Clayton, PhD  
Vice President and Chief Scientific Officer

ATTESTED:

By:   
Craig A. Alexander  
Vice President and General Counsel

CMCC 1060  
HHMI 03224

**PATENT**  
**REEL: 018642 FRAME: 0302**

ASSIGNMENT

WHEREAS, We, Leonard I. Zon, a United States citizen residing at 6 Frost Circle, Wellesley, MA 02482, Alan J. Davidson, a New Zealand citizen, residing at 130 Gardner Street, West Roxbury, MA 02132 and George Q. Daley, a United States citizen residing at 50 Young Road, Weston, MA 02493, have invented certain new and useful improvements in METHOD OF ENHANCING PROLIFERATION AND/OR HEMATOPOIETIC DIFFERENTIATION OF STEM CELLS, for which we have executed an application for Letters Patent in the United States, filed as U.S. Application No. 10/528,808 on March 23, 2005, which is a 371 National Stage Entry of the PCT/US2003/029185 filed on September 18, 2003, which claims the benefit of the U.S. provisional application No. 60/413,816, filed September 26, 2002;

AND WHEREAS, Children's Medical Center Corporation, a Massachusetts corporation, with its principal place of business at 55 Shattuck Street, Boston, MA 02115, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these present do hereby sell, assign, transfer and set over, unto the said Children's Medical Center Corporation, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue Patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said Children's Medical Center Corporation, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

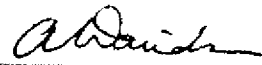
AND WE HEREBY covenant and agree that we will communicate to the said Children's Medical Center Corporation, its successors, legal representatives and assigns, any facts known to me respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said Children's Medical Center Corporation, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 100 Summer Street, Boston, Massachusetts 02110, U.S.A. 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 U.S. Patent and Trademark, Office for recordation of this document.

IN TESTIMONY WHEREOF, I, Leonard I. Zon, hereunto set my hand and seal this 9 day of May, 2005.

  
Leonard I. Zon

IN TESTIMONY WHEREOF, I, Alan J. Davidson, hereunto set my hand and seal this 5 day of May, 2005.

  
Alan J. Davidson

IN TESTIMONY WHEREOF, I, George Q. Daley, hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

 4/25/05  
George Q. Daley

CMCC: 1060

HHM: 3224

BOS1477168.