

SAS/AC:gte 9/23/04 E-329-2001/0-US-01 307763.doc

Atty. Ref. No. 4239-61090-02

RECORDATION FORM COVER SHEET - PATENTS ONLY

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DIRECTOR FOR PATENTS

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ALEXANDRIA, VA 22313-1450

1. Total number of pages including cover sheet, attachments and document: 84**2. Name of Conveying Party(ies) and Execution Date(s) of Document(s)** ☐ Check here if additional name(s) attached

Name(s): Neal D. Epstein, Thiru V. Gopal, Steve O. Winitsky and Shahin Hassanzadeh

Execution Date(s): April 17, 2002

3. Name and address of receiving party ☐ Check here if additional name(s) & address(es) are attached

Name Government of the United States of America as represented by the Secretary of the Department of Health and Human Services, The

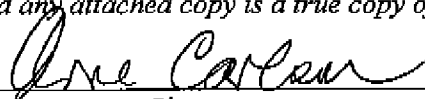
Address National Institutes of Health
Office of Technology Transfer, Suite 325
6011 Executive Boulevard

City Rockville State/Country MD Zip 20852

4. Nature of Conveyance☒ Assignment ☐ Merger ☐ Security Agreement ☐ Name Change ☐ Other:**5. Total number of applications and patents involved:** One**6. Total Fee Enclosed (37 C.F.R. § 3.41):** \$40.00**7. ☒ Check here if any deficiency/overpayment is authorized to be charged to deposit account 02-4550****8. Enter either the Execution date (of the Declaration and Power of Attorney), Application Number, or the Patent Number. Do not enter more than one number for the same patent.**A. ☐ This document is being filed with a new application. Execution date is: _____B. ☒ Patent Application No.(s) or Patent No.(s): 10/863,004 filed June 7, 2004☐ Check here if additional numbers are attached**9. Correspondent's name, address, and telephone number**Anne Carlson, Ph.D.
Klarquist Sparkman, LLP
One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204-2988
Telephone: 503-226-7391
Facsimile: 503-228-9446**10. ☐ Please return the attached postcard to confirm that these items have been received.****11. 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.*

Anne Carlson, Ph.D.

Name of Person Signing



Signature

September 23, 2004

Date

cc: Client
Docketing
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NIH Paralegal

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PATENT
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ASSIGNMENT

WHEREAS, we, Neal D. Epstein, of 8005 Ashboro Court, Chevy Chase, MD, a citizen the USA, Thiru V. Gopal, of 14624 Boat House Way, North Potomac, MD, a citizen of the USA, Steve O. Winitsky, of 9815 Bristol Square, Apt. 103, Bethesda, MD, a citizen of the USA, and Shahin Hassanzadeh, of 11952 Glen Alden Road, Fairfax, VA, a citizen of the USA, employees of the Department of Health and Human Services at the time the invention was made, have invented STEM CELLS THAT TRANSFORM TO BEATING CARDIOMYOCYTES for which an application to the Commissioner for Patents for grant of Letters Patent of the United States of America was filed on October 22, 2001 and assigned Application Number 10/003,400.

WHEREAS, the conditions under which said invention was made are such as to entitle the Government of the United States of America under Paragraph 1(a) of Executive order 10096, to the entire right, title, and interest herein, both domestic and foreign; and

WHEREAS, the Government of the United States of America is desirous of acquiring all domestic and foreign right, title, and interest in the aforesaid invention described in the aforesaid application for Letters Patent of the United States of America; and

NOW, THEREFORE, to all whom it may concern, be it known for and in consideration of the premises and other valuable considerations, we the undersigned, have sold, assigned, and transferred and by these presents do sell, assign, and transfer unto The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services (hereinafter THE GOVERNMENT), and their successors, the full and exclusive right, title, and interest in the invention, patent application and patent rights throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file the invention described in the aforesaid application for Letters Patent of the United States of America, and all Letters Patents and Registrations which may be granted on the same in the United States of America and all countries throughout the world, and to claim the priority from the application as provided by United States Law and the Paris Convention, or of any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

AND, we hereby authorize and request the Commissioner for Patents to issue said Letters Patent to THE GOVERNMENT as an assignee of the entire right, title, and interest in and to the same throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file, for the sole use for the full term or terms for which said Letters Patent and Registrations may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof which may be granted as fully and entirely as the same would have been held by us, had this assignment not been made;

AND, we hereby warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied with respect to the aforesaid application for Letters Patent which will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of this instrument by us;

AND, we hereby agree to execute any and all applications for Letters Patent in the United States of America and foreign countries, and to furnish and deliver to the Secretary, Department of Health and Human Services, upon request, all data and documents, and to execute any papers which may be necessary for the prosecution of any application or applications of Letters Patent or for THE GOVERNMENT to exercise its rights granted hereunder, including communicating to THE GOVERNMENT, its representatives or agents, any facts relating to said invention, including evidence for interference purposes, or for other proceedings, whenever requested, to testify in any interference or other proceedings, whenever requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon our heirs, legal representatives, administrators and assigns, and we shall assist THE GOVERNMENT in every way as may be requested in protecting said invention, provided that any expense of extending such assistance shall be paid by THE GOVERNMENT.

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we hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 4/17/02

Neal D. Epstein
Neal D. Epstein

STATE OF Maryland)
COUNTY OF Montgomery) ss.

This 17th day of April, 2002, before me personally came the above-named Neal D. Epstein, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

C. Harris
Notary Public for 300-EDK-2004
My commission expires
FAIRFAX COUNTY, MARYLAND

[SEAL]

Dated: 4/17/02

Thiru V. Gopal
Thiru V. Gopal

STATE OF Maryland)
COUNTY OF Montgomery) ss.

This 17th day of April, 2002, before me personally came the above-named Thiru V. Gopal, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

C. Harris
Notary Public for 631-2004
My commission expires
FAIRFAX COUNTY, MARYLAND

[SEAL]

WDN/SAS/ABC:jum 4239-61090 E-1/0 03/21/02

Dated: 4/17/02Steve O. Winitsky
Steve O. WinitskySTATE OF Maryland)
) ss.
COUNTY OF Montgomery

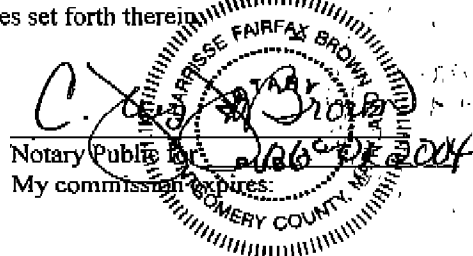
This 17th day of April, 2002, before me personally came the above-named Steve O. Winitsky, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]

Dated: 4/17/02Shahin Hassanzadeh
Shahin HassanzadehSTATE OF Maryland)
) ss.
COUNTY OF Montgomery

This 17th day of April, 2002, before me personally came the above-named Shahin Hassanzadeh, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]