PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Warren J. Leonard	11/02/2005
Peter Lipsky	10/31/2005
Herbert C. Morse III	11/08/2005
Catherine Rachel Ettinger	12/01/2005
Rosanne Spolski	11/01/2005

RECEIVING PARTY DATA

IIName.	Government of the United States of America as represented by the Secretary of the Department of Health and Human Services, The	
Street Address:	6011 Executive Boulevard	
Internal Address:	National Institutes of Health, Office of Technology Transfer, Suite 325	
City:	Rockville	
State/Country:	MARYLAND	
Postal Code:	20852	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11197221

CORRESPONDENCE DATA

Fax Number: (503)595-5301

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 5035955300

Email: greg.euteneier@klarquist.com

Correspondent Name: Klarquist Sparkman - Susan Alpert Siegel

Address Line 1: 121 SW Salmon, Suite 1600 Address Line 4: Portland, OREGON 97204

ATTORNEY DOCKET NUMBER: 4239-66179-03

PATENT REEL: 016863 FRAME: 0618

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NAME OF SUBMITTER:	Susan Alpert Siegel
Total Attachments: 8	
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PATENT REEL: 016863 FRAME: 0619

ASSIGNMENT

We, Warren J. Leonard, of Bethesda, Maryland, a citizen of the United States of America, Peter Lipsky, of Rockville, Maryland, a citizen of the United States of America, Herbert C. Morse III, of Rockville, Maryland, a citizen of the United States of America, Catherine Rachel Ettinger, of Bethesda, Maryland, a citizen of the United States of America, and Rosanne Spolski, of Ellicott City, Maryland, a citizen of the United States of America, have invented a certain invention entitled METHOD OF INDUCING MEMORY B CELL DEVELOPMENT AND TERMINAL DIFFERENTIATION for which the following patent applications have been filed:

U.S. Provisional Patent Application No. 60/523,754, filed on November 19, 2003; and PCT Application No. PCT/US04/039135 filed on November 18, 2004; and U.S. Patent Application No. 11/197,221, filed August 3, 2005

all of which applications are collectively referred to herein as "the patent applications."

We were employed by the Department of Health and Human Services at the time the invention was made. 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 in the invention, in the United States and all other countries throughout the world.

In consideration of our obligations under Executive Order 10096, and other valuable consideration, we the undersigned, have sold, assigned, and transferred and do sell, assign, and transfer to 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 successors and assigns, the full and exclusive right, title, and interest in the patent applications and invention throughout the United States of America, its territories and dependencies, and all other countries. This includes an assignment of all Letters Patent that may be granted on the invention in the United States of America and all countries throughout the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof; and the right to claim priority from the patent applications as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

We authorize and request the issuance of said Letters Patent to THE GOVERNMENT as assignee of the entire right, title, and interest to be held as fully and entirely as the same would have been held by us had this assignment not been made.

We warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of the present assignment.

We also agree upon reasonable request to communicate to THE GOVERNMENT, its representatives, assigns or agents, any facts known to us respecting the invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, provide all requested documents, and do everything reasonably possible to aid THE GOVERNMENT and its assigns to obtain and enforce proper patent protection for the invention in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

ASSIGNMENT - Page 1 of 4

We have authorized THE GOVERNMENT to file and prosecute the patent applications, as well as any corresponding international or national applications that claim priority from them. THE GOVERNMENT has the right to select attorneys or agents of its choice to prosecute at its discretion the patent applications on its behalf.

We grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that 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: 11/2/05	Warren J. Leonard
STATE OF Maryland	SHARYN B. HARTSFIELD NOTARY PUBLIC
COUNTY OF Privacing ss.	My Commission Expires
This <u>E</u> day of <u>Nilember</u> ,	, before me personally came the above-named Warren J.
Leonard, who executed the foregoing Assigna	ment in my presence, and who acknowledged to me that it was
executed under that person's own free will fo	Notary Rublic for Prince Group County My commission expires: 7/ Hroup
[SEAL]	1/1/2008
-	
Dated:	
	Peter Lipsky
STATE OF) ss. COUNTY OF)	
This day of,, Lipsky, who executed the foregoing Assignm executed under that person's own free will for	, before me personally came the above-named Peter ent in my presence, and who acknowledged to me that it was r the purposes set forth therein.
	Notary Public for
	My commission expires:
[SEAL]	

ASSIGNMENT - Page 2 of 4

Notary Public for _____

My commission expires:

WDN/SAS:cas 4239-66179-03 E-120-2003/2-US-01 10/26/05

[SEAL]

ASSIGNMENT - Page 3 of 4

Dated: 11/1/2005

Rosanne Spolski

STATE OF

COUNTY OF Mance Granco

This \(\) day of \(\) day of \(\) day of \(\) day of \(\) sefore me personally came the above-named Rosanne Spolski, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

OTARY DELIC

SHARYN B. HARTSFIELD NOTARY PUBLIC PRINCE GEORGE'S COUNTY, MD My Commission Expires July 1, 2008

Notary Public fo

My commission expires:

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ASSIGNMENT

We, Warren J. Leonard, of Bethesda, Maryland, a citizen of the United States of America, Peter Lipsky, of Rockville, Maryland, a citizen of the United States of America, Herbert C. Morse III, of Rockville, Maryland, a citizen of the United States of America, Catherine Rachel Ettinger, of Bethesda, Maryland, a citizen of the United States of America, and Rosanne Spolski, of Ellicott City, Maryland, a citizen of the United States of America, have invented a certain invention entitled METHOD OF INDUCING MEMORY B CELL DEVELOPMENT AND TERMINAL DIFFERENTIATION for which the following patent applications have been filed:

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all of which applications are collectively referred to herein as "the patent applications."

We were employed by the Department of Health and Human Services at the time the invention was made. 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 in the invention, in the United States and all other countries throughout the world.

In consideration of our obligations under Executive Order 10096, and other valuable consideration, we the undersigned, have sold, assigned, and transferred and do sell, assign, and transfer to 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 successors and assigns, the full and exclusive right, title, and interest in the patent applications and invention throughout the United States of America, its territories and dependencies, and all other countries. This includes an assignment of all Letters Patent that may be granted on the invention in the United States of America and all countries throughout the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof; and the right to claim priority from the patent applications as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

We authorize and request the issuance of said Letters Patent to THE GOVERNMENT as assignee of the entire right, title, and interest to be held as fully and entirely as the same would have been held by us had this assignment not been made.

We warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of the present assignment.

We also agree upon reasonable request to communicate to THE GOVERNMENT, its representatives, assigns or agents, any facts known to us respecting the invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, provide all requested documents, and do everything reasonably possible to aid THE GOVERNMENT and its assigns to obtain and enforce proper patent protection for the invention in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

ASSIGNMENT - Page 1 of 4

PATENT REEL: 016863 FRAME: 0624 We have authorized THE GOVERNMENT to file and prosecute the patent applications, as well as any corresponding international or national applications that claim priority from them. THE GOVERNMENT has the right to select attorneys or agents of its choice to prosecute at its discretion the patent applications on its behalf.

We grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that 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:	
	Warren J. Leonard
STATE OF)	
COUNTY OF) ss.	
This day of,,,,	, before me personally came the above-named Warren J. signment in my presence, and who acknowledged to me that it was ll for the purposes set forth therein.
	Notary Public for
[SEAL]	My commission expires:
Dated: 10/31/05	Peter Lipsky
STATE OF Way knd) COUNTY OF Montany	•
This 31 day of October 2	, before me personally came the above-named Peter nment in my presence, and who acknowledged to me that it was for the purposes set forth therein.
	Notary Public for Montanny Co., Maryland
SEAL]	My commission expires: Feb. 1, 2009

PATENT REEL: 016863 FRAME: 0625

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WDN/SAS:cas 4239-66179-03 E-120-2003/2-US-01 10/26/05		
Dated:		
	Habas C Snore in Herbert C. Morse III	
COUNTY OF MONTO SS.		
This \(\frac{1}{2} \) day of \(\frac{1}{2} \), before me personally came the above-named Herbert C. Morse, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.		
[SEAL]	Notary Public for 0710101. My commission expires:	
Dated:		
	Catherine Rachel Ettinger	
STATE OF) ss. COUNTY OF)		
This day of, Rachel Ettinger, who executed the foregoing Ass that it was executed under that person's own free	, before me personally came the above-named Catherine signment in my presence, and who acknowledged to me will for the purposes set forth therein.	
	Notary Public for My commission expires:	

[SEAL]

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NOTARY PUBLIC STATE OF MARYLAND My Commission Expires October 1, 2006

WDN/SAS:cas 4239-66179-03 E-120-2003/2-US-01 11/10/05

RECORDED: 12/07/2005

PATENT REEL: 016863 FRAME: 0627

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