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FORM PTO-1595 1-31-92	REC	101603317	ET	U.S. DEPARTMENT OF COMMERCE Patent and Trademark office
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1-19-01

To the Director of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of Conveying Party(ies): Ronald M. Summers, M.D., Ph.D., Scott Selbie, Lynne M. Pusanik and James D. Malley Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	2. Name and address of receiving party(ies): Name: <u>The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services</u> Internal Address: <u>Office of Technology Transfer, Suite 325</u> Street Address: <u>6011 Executive Boulevard</u> City <u>Rockville</u> State <u>MD</u> ZIP <u>20852</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <u>9/29/1998; 9/29/1998; 9/29/1998 and 10/6/1998, respectively</u>	

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: January 19, 2001

A. Patent Application No.(s) <u>09/136,136</u>	B. Patent No.(s)
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Mark L. Becker</u> <u>Klarquist Sparkman Campbell Leigh & Whinston, LLP</u> Internal Address: <u>One World Trade Center, Suite 1600</u> Street Address: <u>121 S.W. Salmon Street</u> <u>Portland, Oregon 97204-2988</u>	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR § 3.41): <u>\$40.00</u> Enclosed. 8. <input checked="" type="checkbox"/> Any deficiency/overpayment is authorized to be charged to deposit account 02-4550. A copy of this sheet is enclosed.
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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.

<u>Mark L. Becker</u>		<u>January 19, 2001</u>
Name of Person Signing	Signature	Date

Total number of pages including cover sheet, attachments and document: 4

OMB No 0651-0011 (exp. 4/94)

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ASSIGNMENT

WHEREAS, we, Ronald M. Summers, of 10935 Bells Ridge Drive, Potomac, MD 20854-2789, a citizen of the United States of America, Scott Selbie, of 1011 Julian Place, Rockville, MD 20852, a citizen of Canada, James D. Malley, of 1840 Greenplace Terrace, Rockville, MD 20850, a citizen of the United States of America, and Lynne M. Pusanik, of 11762 Lone Tree Ct., Columbia, MD 21044, a citizen of the United States of America, employees of the Department of Health and Human Services at the time the invention was made, have invented for which an application to the Assistant Commissioner for Patents for grant of Letters Patent of the United States of America has been executed by the undersigned

(X) on: _____, 1998 and

(X) was filed on August 18, 1998 and was given Application No. 09/136,136.

WHEREAS, we by virtue of this assignment, and 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 his successors, the full and exclusive right, title, and interest 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 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 Assistant 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

Dated: October 6, 1998

James D. Malley
James D. Malley

STATE OF Maryland)
) ss.
COUNTY OF Montgomery)

This 6th day of October, 1998, before me personally came the above-named James D. Malley, 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.

Theresa W. Lumsden
Notary Public for Maryland
My commission expires:

[SEAL]

THERESA W. LUMSDEN
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires April 26, 1999

Dated: Sept 29, 1998

Lynne M. Pusanik
Lynne M. Pusanik

STATE OF Maryland)
) ss.
COUNTY OF Montgomery)

This 29th day of September, 1998, before me personally came the above-named Lynne M. Pusanik, 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.

Theresa W. Lumsden
Notary Public for Maryland
My commission expires:

[SEAL]

THERESA W. LUMSDEN
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires April 26, 1999