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

2. Name of Conveying Party(ies) and Execution Date(s) of Document(s) Check here if additional name(s) attached

Name(s): Ira H. Pastan, Tomoko Ise, Laiman Xiang, and Satoshi Nagata
Execution Date(s): January 25, 2006

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

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

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

City Rockville State/Country MD Zip 20852

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4. Nature of Conveyance

Assignment Merger Security Agreement Name Change Other:

5. Total number of applications and patents involved: 1

6. Total Fee Enclosed (37 C.F.R. § 3.41): \$40.00

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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: January 25, 2006

B. Patent Application No.(s) or Patent No.(s):

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9. Correspondent's name, address, and telephone number

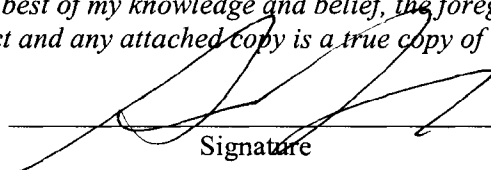
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11. Statement and signature *To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

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Susan Alpert Siegel, Ph.D.  March 28, 2007

Name of Person Signing Signature Date

cc: Client
Docketing
Accounting (only if via fax)
NIH Paralegal

PATENT

REEL: 019143 FRAME: 0019

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WDNSAS:dnr 4239-69228-02 E-287-20041 PCT-01 10/19/05

ASSIGNMENT

We, Ira H. Pastan, of Potomac, Maryland, a citizen of United States of America, Tomoko Ise, of Rockville, Maryland, a citizen of Japan, Laiman Xiang, of Fairfax, Virginia, a citizen of United States of America, and Satoshi Nagata, of Rockville, Maryland, a citizen of Japan, have invented a certain invention entitled IRTA2 ANTIBODIES AND METHODS OF USE for which the following patent applications have been filed:

U.S. Provisional Patent Application No. 60/615,406, filed on September 30, 2004; and
PCT Application No. PCT/US2005/034444 filed on September 22, 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.

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.

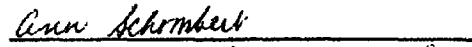
IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 1/25/2006


Ira H. Pastan

STATE OF Maryland)
COUNTY OF Montgomery) ss.

This 25th day of January, 2006, before me personally came the above-named Ira H. Pastan, 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.


Notary Public for Montgomery County
My commission expires: 10/01/2009 Bethesda, MD


[SEAL]

Dated: 1/25/2006


Tomoko Ise

STATE OF Maryland)
COUNTY OF Montgomery) ss.

This 25 day of JANUARY, 2006, before me personally came the above-named Tomoko Ise, 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.


Notary Public for Montgomery County, Bethesda, MD
My commission expires: 10/01/2009

[SEAL]

Dated: 1/25/2006

Laiman Xiang
Laiman Xiang

STATE OF Maryland)
) ss.
COUNTY OF Montgomery)

This 25 day of January, 2006, before me personally came the above-named Laiman Xiang, 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.

Anna Schmidt
Notary Public for Bethesda, MD, Montgomery County
My commission expires:
10/01/2009

[SEAL]

Dated: January 25, 2006

Satoshi Nagata
Satoshi Nagata

STATE OF Maryland)
) ss.
COUNTY OF Montgomery)

This 25th day of JANUARY, 2006, before me personally came the above-named Satoshi Nagata, 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.

Anna Schmidt
Notary Public for Bethesda, MD, Montgomery County
My commission expires:
10/01/2009

[SEAL]