

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JAMES ARTHOS | 02/11/2008 |
| DIANA GOODE | 02/06/2008 |
| CLAUDIA CICALA | 02/11/2008 |
| ANTHONY S. FAUCI | 02/11/2008 |
| RECEIVING PARTY DATA | |
| Name: | THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES |
| Street Address: | 6011 EXECUTIVE BOULEVARD, SUITE 325, MSC 7660 |
| Internal Address: | OFFICE OF TECHNOLOGY TRANSFER, NATIONAL INSTITUTES OF HEALTH |
| City: | BETHESDA |
| State/Country: | MARYLAND |
| Postal Code: | 20892-7660 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14859675 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | 4239-77318-07 |
| NAME OF SUBMITTER: | SUSAN ALPERT SIEGEL |
| SIGNATURE: | /Susan Alpert Siegel/ |
| DATE SIGNED: | 05/09/2016 |

Total Attachments: 4

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ASSIGNMENT

We, James Arthos, of Rockville, Maryland, a citizen of the United States of America, Diana Goode, of Bellingham, Massachusetts, a citizen of the United States of America, Claudia Cicala, of Bethesda, Maryland, a citizen of Italy, and Anthony S. Fauci, of Washington, DC, a citizen of the United States of America, have invented a certain invention entitled USE OF ANTAGONISTS OF THE INTERACTION BETWEEN HIV GP120 AND $\alpha 4\beta 7$ INTEGRIN

for which the following patent applications have been filed:

U.S. Provisional Patent Application No. 60/873,884, filed on December 7, 2006;
U.S. Provisional Patent Application No. 60/920,880, filed on March 30, 2007;
U.S. Provisional Patent Application No. 60/957,140, filed on August 21, 2007; and
PCT Application No. PCT/US2007/086663 filed on December 6, 2007;

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

At the time the invention was made, we were employed by the National Institute of Allergy and Infectious Diseases at the National Institutes of Health, a component of the Department of Health and Human Services. The conditions under which said invention was made entitle THE UNITED STATES OF AMERICA, as represented by the Secretary, Department of Health and Human Services (hereinafter "THE GOVERNMENT") to the entire right, title, and interest in the invention under Paragraph 1(a) of Executive Order 10096 and its amendments, 35 USC Chapter 18, and 37 CFR Parts 401 and 501.

In consideration of our legal obligations to assign our right, title and interest in the invention as well as other valuable consideration, we the undersigned, have sold, assigned, and transferred and do sell, assign, and transfer to THE GOVERNMENT, having a place of business at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, Maryland 20892-7660, 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, make, execute and/or deliver to THE GOVERNMENT all papers, documents, affidavits or other instruments that may be necessary in the prosecution of any patent application, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything reasonably possible to aid THE GOVERNMENT and its assigns to obtain and enforce proper patent

ASSIGNMENT - Page 1 of 4

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: 2/11/08

James Arthos
James Arthos

STATE OF Maryland)
) ss.

COUNTY OF Montgomery

This 11th day of February, 2008, before me personally came the above-named James Arthos, who executed the foregoing Assignment in my presence, and who acknowledged to me that this instrument was executed by James Arthos's own free will for the purpose set forth therein.

Murky Stottum
Notary Public for State of Maryland
My commission expires: 10/1/08

[SEAL]

Dated: 2/6/08

Diana Goode
Diana Goode

STATE OF Massachusetts
COUNTY OF U.S.) ss.

This 6th day of February 2008, before me personally came the above-named Diana Goode, who executed the foregoing Assignment in my presence, and who acknowledged to me that this instrument was executed by Diana Goode's own free will for the purpose set forth therein.

Jennifer Osborne
Notary Public for State of Maryland
My commission expires: 3/1/2010

[SEAL]

Dated: 2/11/08

Claudia Cicala
Claudia Cicala


STATE OF Maryland
COUNTY OF Montgomery) ss.

This 11th day of February 2008, before me personally came the above-named Claudia Cicala, who executed the foregoing Assignment in my presence, and who acknowledged to me that this instrument was executed by Claudia Cicala's own free will for the purpose set forth therein.

Shirley Stottum
Notary Public for State of Maryland
My commission expires: 10/1/08

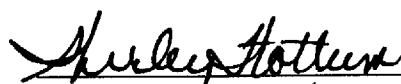
[SEAL]

Dated: 02-11-08


Anthony S. Fauci

STATE OF Maryland)
) ss.
COUNTY OF Montgomery

This 11th day of February, 2008, before me personally came the above-named Anthony S. Fauci, who executed the foregoing Assignment in my presence, and who acknowledged to me that this instrument was executed by Anthony S. Fauci's own free will for the purpose set forth therein.


Notary Public for state of Maryland
My commission expires: 10/1/08

[SEAL]