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FORM PTO-1594
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U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 04995.0048

101170806

To the Honorable Commissioner of Patents and
Please record the attached original documents or copy thereof.

ATTN. BOX ASSIGNMENTS

1. Name of conveying party(ies): Robin C. Sandlin
Anthony T. Maurelli
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: Uniformed Services University of Health Sciences
Internal Address:

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name

Street Address: 4301 Jones Bridge Road
City: Bethesda
State: Maryland Zip Code: 20814-4799

Other
Execution Date: September 27, 1999 and October 1, 1999

Additional name(s) & Address(es) attached?
 Yes No

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:
A. Patent, Application Number(s):
(60/082,944 and 09/296,670)
Additional numbers attached? Yes No

B. Patent Number(s):

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Jean B. Fordis
Internal Address: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

6. Total number of applications and registrations involved: Two
7. Total fee (37 CFR 3.41): \$80

Enclosed (Please charge deficiency to deposit account)

Authorized to be charged to deposit account

Street Address: 1300 I Street, N.W.
City: Washington
State: DC Zip: 20005-3315

8. Deposit account number: 06-0916

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.
Jean B. Fordis Jean B. Fordis Oct 11, 1999
Reg. No. 43,764 Signature Date
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10/14/1999 NTHA11 00000044 60082944
101 FC:581 Total number of pages including cover sheet, attachments and documents: 3

ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

PROTEINS THAT DIRECT THE SECRETION OF VIRULENCE PROTEINS AND USE THEREOF TO DETECT, PREVENT, AND TREAT BACTERIAL DISEASES AND METHODS FOR DETERMINING THE EXPRESSION REQUIREMENT OF GENES

for which We filed a provisional application on April 24, 1998, (Serial No. 60/082,944) and an application for United States Letters Patent on April 22, 1999, (Serial No. 09/296,670); and

WHEREAS, Uniformed Services University of Health Sciences, a United States Government Agency located in Bethesda, Maryland, whose post office address is 4301 Jones Bridge Road, Bethesda, Maryland 20814-4799 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

County of HOWARD)
State of MARYLAND)

Robin C. SANDLIN
8450 Kings Meade Way, Columbia, Maryland 21046

SIGNATURE DATE
[Handwritten Signature] 9-27-99

Subscribed and sworn to before me this 27 day of SEPT, 1999

[Handwritten Signature], Notary Public

JOHN M. C. GREEN
NOTARY PUBLIC STATE OF MARYLAND
COMMISSION EXPIRES DEC. 1, 2000

County of FORI LYNNE PATCHAN)
NOTARY PUBLIC STATE OF MARYLAND)
My Commission Expires July 28, 2001)
State of _____)

ss.

Anthony T. MAURELLI
1429 Winding Wave Lane, Silver Spring, Maryland 20902

Anthony T. Maurelli
SIGNATURE

10/1/99
DATE

Subscribed and sworn to before me this 1 day of Oct, 1999
[Signature], Notary Public