09-15-2003 FORM PTO-1595 NT OF COMMERCE 1-31-92 and Trademark Office Docket No.: PENN-0852 RECORDATION FORM COVER SH ID NO: To The Honorable Commissioner of Patents and Trademarks. Please record the attached original document(s) or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Ariella R. Rosengard Name: Trustees of the University of Pennsylvania Internal Address: Office for Technology Transfer Street Address: 3160 Chestnut Street, Suite 200 Additional name(s) of conveying party(ies) City: Philadelphia attached? State: Pennsylvania Zip: 19104-6283 () YES (XX) NO 3. Nature of Conveyance: Additional names (s) & address attached? (XX) Assignment () Merger () YES (XX) NO () Name Change () Security Agreement () Other: Execution date: August 18, 2003 4. Application number(s) or patent number(s): A. Patent Application No(s). 10/441,624 FILED May 20, 2003 B. Patent No(s). If this document is being filed together with a new application, the execution date of the application is: Additional numbers attached? () YES (XX) NO 5. Name and address of party to whom 6. Total number of applications and patents involved: One (1) correspondence concerning documents should be mailed: Licata & Tyrrell P.C. 7. Total fee (37 CFR 3.41): \$40.00 66 E. Main Street) Enclosed Marlton, New Jersey 08053 (XX) Authorized to be charged to deposit account. 12/2003 ECDOPER 00000081 501619 10441624 8. Deposit Account number: 50-1619 FC:8021 40.00 M (Attach duplicate copy of this page if paying by deposit account.) DO NOT USE THIS SPACE 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. Jane Massey Licata, Reg. No. 32,257 Name of Person Signing

Signature Jangungude

September 8, 2003

Total number of pages comprising cover sheet, attachments, and document: Three

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Box Assignments Washington, D.C. 20231

REEL: 014473 FRAME: 0081

PATENT

Attorney Docket No.: PENN-0852

ASSIGNMENT

WHEREAS, I, Ariella R. Rosengard, herein after referred to as the assignor, residing at 905 Merion Square Road, Gladwyne, Pennsylvania 19035, am the inventor of certain inventions or improvements for which I have made application for Letters Patent of the United States, identified as Serial No. 10/441,624, filed May 20, 2003, entitled Compositions and Methods Modulating Variola and Vaccinia Virus; and

WHEREAS, The Trustees of the University of Pennsylvania, hereinafter referred to as the assignee, of Philadelphia, Pennsylvania, a non-profit corporation of Pennsylvania, U.S.A., is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said assignor, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any re-issue or re-issues or extension or extensions of said Letters Patent, and assign to and authorize said assignee to file in my name applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND I hereby covenant that I have full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith, and I further covenant and agree that I will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees or legal

PATENT REEL: 014473 FRAME: 0082 representatives, and I agree to communicate to said assignee, or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents of applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

Ariella M. Rosengard

Allelia M. Kobenga

(Б.S.

STATE OF Pennsylvania

COUNTY OF Montgomery

On this day of April 2003, before me personally appeared (NAME OF INVENTOR) Ariella M. Rosengard to me personally known, and known to be the person who executed the foregoing assignment, and who acknowledged to me that the execution of the same was of her own free will and for the use and purposes therein set forth.

NOTARIAL SEAL
PAULINE I. MOSES, Notary Public
City of Philadelphia, Phila. County
My Commissic Exotres Dec. 13, 2003

RECORDED: 09/11/2003

Notary Public

(PLEASE SHOW THE DATE OF EXPIRATION OF YOUR COMMISSION