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To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.

1. Name of conveying party(ies):

David B. Weiner  
Jong J. Kim  
Michael G. Agadjanyan

11-20-02

Additional name of conveying party(ies) attached?  
 Yes  No

2. Name and address of receiving party(ies)

Name: The Trustees of the University of Pennsylvania  
Street Address: 3160 Chestnut Street, Suite 200  
City: Philadelphia State: PA Zip: 19104

Additional Name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- License Agreement  Security Agreement
- Change of Name  Other
- Cross-reference of Assignment filed in United States Application No. 09/914,553, recorded on August 5, 2002 at Reel No. 013149 and Frame No. 0051.

Execution Dates: May 3, 2002 and June 24, 2002

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:

A. Patent Application No.(s)  
10/139,423

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning this document should be mailed:

Name: Paul K. Legaard  
Cozen O'Connor  
1900 Market Street - The Atrium  
Philadelphia, PA 19103  
215-665-2000

6. Total number of applications and patents involved: 01

7. Total fee (37 CFR 3.41) . . . . . \$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Please charge any deficiency or credit any overpayment to Deposit Account Number 50-1275

(Attach duplicate copy of this page if paying by deposit account)

11/27/2002 TDIAZ1 00000043 501275 10139423  
01 FR:8021 40.00 CH

FINANCE SECTION  
NOV 27 2002 9:46

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.

Paul K. Legaard/38,534  
Name of Person Signing/Reg. No.

*Paul K. Legaard*  
Signature

8 NOVEMBER 2002  
Date

Total number of pages including cover sheet, attachments, and documents: 09

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

**(Pending Application;  
Serial No. Unknown)**

**ASSIGNMENT**

WHEREAS, we **David B. WEINER, Jong J. KIM and Michael G. AGADJANYAN**, hereinafter referred to as the assignors, residing respectively at **717 Beacom Drive, Merion Station, PA 19066; 157 Orchard Drive, North Wales, PA 19454; 353 Kevin Court, Philadelphia, PA 19116** are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Case No. **UPAP-0496**, entitled **VACCINES AND GENE THERAPY COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME**; and

WHEREAS, **The Trustees of the University of Pennsylvania** hereinafter referred to as the assignee, of **3700 Market Street, Suite 300, Philadelphia, PA 19104**, a non-profit corporation of **Pennsylvania**, 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 each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, 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 reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names 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 us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we 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 representatives, and each of us agrees 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




5/3/02  
Date

Jong J. KIM (L.S.)

STATE OF Pennsylvania :  
COUNTY OF Philadelphia : SS

On this 3 day of May, year of 02, before me personally came the above named Jong J. KIM to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



Notary Public

NOTARIAL SEAL  
TERESA M. DUNN, Notary Public  
City of Philadelphia, Phila. County  
My Commission Expires Aug. 12, 2003

\_\_\_\_\_  
Date Michael G. AGADJANYAN (L.S.)

STATE OF \_\_\_\_\_:  
: SS  
COUNTY OF \_\_\_\_\_:

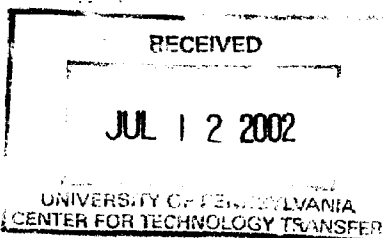
On this \_\_\_\_\_ day of \_\_\_\_\_, year of \_\_\_\_, before me personally came the above named \_\_\_\_\_ to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

\_\_\_\_\_  
Notary Public

\*The above assignment covers application Serial No. 09/914,553, filed on J, year of \_\_\_\_.

The above insertion made by me this 30th day of July, year of 2002.

of **WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP**  
Name: Mark DeLuca  
Registration No. 33,229



K1764  
AJG

DOCKET NO.: UPAP-0496

PATENT  
Joint Inventors

(Pending Application;  
Serial No. Unknown)

ASSIGNMENT

WHEREAS, we David B. WEINER, Jong J. KIM and Michael G. AGADJANYAN, hereinafter referred to as the assignors, residing respectively at 717 Beacom Drive, Merion Station, PA 19066; 157 Orchard Drive, North Wales, PA 19454; 353 Kevin Court, Philadelphia, PA 19116 are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Case No. UPAP-0496, entitled VACCINES AND GENE THERAPY COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME; and

WHEREAS, The Trustees of the University of Pennsylvania hereinafter referred to as the assignee, of 3700 Market Street, Suite 300, Philadelphia, PA 19104, a non-profit corporation of Pennsylvania, 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 each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, 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 reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names 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 us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we 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 representatives, and each of us agrees 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

DOCKET NO.: UPAP-0496

PATENT  
Joint Inventors

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 we 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 on 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.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

We further authorize and direct our attorneys to insert below\* the serial number and filing date of said application now identified as Case No. UPAP-0496 as soon as the same shall have been made known to them by the United States Patent Office.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

5/3/02                      David B. Weiner (L.S.)  
Date                                      David B. WEINER

STATE OF Pennsylvania  
COUNTY OF Philadelphia : SS

On this 3 day of May, year of 02, before me personally came the above named David B. Weiner to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Teresa M. Dunn  
Notary Public  
NOTARIAL SEAL  
TERESA M. DUNN, Notary Public  
City of Philadelphia, Phila. County  
My Commission Expires Aug. 12, 2003

DOCKET NO.: UPAP-0496

PATENT  
Joint Inventors

5/3/02  
Date

Jong J. KIM (L.S.)

STATE OF Pennsylvania  
COUNTY OF Philadelphia

On this 3 day of May, year of 2002, before me personally came the above named Jong J. Kim to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]  
Notary Public

NOTARIAL SEAL  
TERESA M. DUNN, Notary Public  
City of Philadelphia, Phila. County  
My Commission Expires Aug. 12, 2003



DOCKET NO.: UPAP-0496

PATENT  
Joint Inventors

06.24.02  
06.04.02  
Date

Michael G. Agadjanyan  
Michael G. Agadjanyan (L.S.)  
Michael G. AGADJANYAN

STATE OF CALIFORNIA :  
COUNTY OF ORANGE : SS

On this 24 day of June, year of 2002, before me personally came, the above named Michael G. AGADJANYAN <sup>proved to me on the basis of</sup> ~~to me personally known and known~~ <sup>Satisfactory Evidence</sup> to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



Robbie Seal Daly  
Notary Public

\*The above assignment covers application Serial No. 09/914,553 filed on \_\_\_\_\_, year of \_\_\_\_\_.

The above insertion made by me this 30<sup>th</sup> day of July, year of 2002.

of WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP  
Name: Mark DeLuca  
Registration-No. 33,229