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TO THE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE:  
PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name(s) of Conveying party(ies):

Michael P. Neeper, William McClements, Kathrin U. Jansen, Loren D. Schultz, Ling Chen and Xin-Min Wang

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Nature of conveyance:

- ☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other:

3. Name and address of receiving party(ies):

Name: MERCK & Co., INC.

Internal Address: RY60-30

Street Address: P.O. Box 2000

City & State: RAHWAY, NEW JERSEY

Zip/Postal Code: 07065-0907

Execution Date: Jul 17, 2000 Jul 28, 2000 Jul 26, 2000

Additional name(s) &  
addresses attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s) are as follows:

(a) Patent Application No(s). 09/642,405, filed on August 21, 2000

and titled:

SYNTHETIC HUMAN PAPILLOMAVIRUS GENES

(b) If this document is being filed together with a new application, the execution date of the application is:

Additional numbers attached? ☐ Yes ☐ No

5. Name & address of party to whom correspondence  
concerning documents should be mailed:

Name: Alysia A. Finnegan

Internal Address: PATENT DEPARTMENT  
MERCK & CO., INC.  
P.O. BOX 2000 -- RY60-30

City & State: RAHWAY, N.J. Zip: 07065-0907

6. Total no. of applications & patents involved: 1

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

☐ Enclosed

☒ The Director is hereby authorized to charge the deposit  
account number entered below for any fees which may  
be required or to credit any overpayment.

8. Deposit account number: 13-2755

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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.

Alysia A. Finnegan Reg. No. 48,878

Name of Person Signing

Signature

Aug 18, 2005

Date

Total number of pages including cover sheet, attachments, and documents: 4

NOTE: Send to Mail Stop Assignment Recordation Services or Fax to Patent and Trademark Office at (703) 306-5995

CERTIFICATE OF MAILING OR FACSIMILE TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope  
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Trademark Office on:

Name (Print/Type) Nancy E. Yorke

Signature

Date

August 18, 2005

PATENT

JOINT Merck Case 20413YU.S. Serial No. 09/642,405Filing Date August 21, 2000**ASSIGNMENT AND AGREEMENT**

For value received, we, **MICHAEL P. NEEPER, DR. WILLIAM McCLEMENTS, KATHRIN U. JANSEN, LOREN D. SCHULTZ, LING CHEN AND XIN-MIN WANG**

of 1845 MORGAN LANE, COLLEGEVILLE, PA, 19426; 229 DECATUR STREET, DOYLESTOWN, PA 18901; 3117 HOLICONG ROAD, DOYLESTOWN, PA 18901; 421 OAK DRIVE, HARLEYSVILLE, PA 19438; 203 OAKMONT DRIVE, BLUE BELL, PA 19422; AND 113 EQUESRIAN LANE, SCHWENKSVILLE, PA 19473; RESPECTIVELY;

hereby sell, assign and transfer to MERCK & CO., Inc., a corporation of the State of New Jersey, having an office at Lincoln Avenue, City of Rahway, State of New Jersey, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to

**SYNTHETIC HUMAN PAPILLOMAVIRUS GENES**

described in an application for Letters Patent of the United States, executed by us on even date herewith, and in provisional application(s) Serial No. 60/150,728 filed on 08/25/2009 ; Serial No. 60/210,143 filed on 06/07/2000 ; Serial No. filed on (if applicable), and all the rights and privileges, including any and all benefits under the International Convention for the Protection of Industrial Property under any and all Letters Patents which may be granted therefor, and under any and all extensions, divisionals, reissues and continuations of said Letters Patents.

We request that any and all Patents for said inventions be issued to said assignee, its successor, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining Patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

We hereby authorize our attorney, JOANNE M. GIESSER or an attorney with Power of Attorney in this application, of the said MERCK & CO., Inc., to insert **Serial No.**, and **Filing Date** of said application(s) when known.

Signed at WEST POINT, PA this 17<sup>th</sup> day of July, 2000.

MICHAEL P. NEEPERKATHRIN U. JANSENLING CHENWILLIAM L. McCLEMENTSLOREN D. SCHULTZXin-min Wang  
XIN-MIN WANG**PATENT****REEL: 016645 FRAME: 0867**

PATENT

JOINT Merck Case 20413Y

U.S. Serial No. 09/642,405

Filing Date August 21, 2000

## ASSIGNMENT AND AGREEMENT

Signed at West Point, Pennsylvania this 18<sup>th</sup> day of July, 2000.William L. McClements  
WILLIAM L. McCLEMENTSMichael P. Neeper  
MICHAEL P. NEEPERLoren D. Schultz  
LOREN D. SCHULTZCOMMONWEALTH OF PENNSYLVANIACounty of MONTGOMERY

SS.

Personally appeared before me the above-named

KATHRIN U. JANSEN 6.M. 7/18/00  
~~MICHAEL P. NEEPER~~ ~~KATHRIN U. JANSEN~~ ~~LING CHEN~~  
~~WILLIAM L. McCLEMENTS~~ ~~LOREN D. SCHULTZ~~ ~~XIN-MIN WANG~~to me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be  
their free act and deed this 17<sup>th</sup> day of July, 2000.Notarial Seal  
Brenda Myers, Notary Public  
Upper Gwynedd Twp., Montgomery County  
My Commission Expires Apr. 11, 2002  
Member, Pennsylvania Association of NotariesBrenda Myers

Notary Public

COMMONWEALTH OF PENNSYLVANIACounty of MONTGOMERY

SS.

Personally appeared before me the above-named

WILLIAM L. McCLEMENTS MICHAEL P. NEEPER LOREN D. SCHULTZ 6.M. 7/18/00  
LOREN D. SCHULTZto me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be  
their free act and deed this 18<sup>th</sup> day of July, 2000.Notarial Seal  
Brenda Myers, Notary Public  
Upper Gwynedd Twp., Montgomery County  
My Commission Expires Apr. 11, 2002  
Member, Pennsylvania Association of NotariesBrenda Myers

Notary Public

PATENT

REEL: 016645 FRAME: 0368 2

PATENT

JOINT Merck Case 20413Y

U.S. Serial No. 09/642,405

Filing Date August 21, 2000

GG 7/24/00

## ASSIGNMENT AND AGREEMENT

Signed at [Signature] this 26th day of July, 2000.[Signature]  
LING CHEN

COMMONWEALTH OF PENNSYLVANIA

County of MONTGOMERY

SS.

Personally appeared before me the above-named LING CHEN

Notarial Seal  
 Gabrielle A. Gordon, Notary Public  
 Upper Gwynedd Twp., Montgomery County  
 My Commission Expires Nov. 26, 2001  
 Member, Pennsylvania Association of Notaries

to me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be  
 their free act and deed this 26th day of July, 2000

[Signature]  
 Notary Public

Signed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

County of \_\_\_\_\_ } SS.

Personally appeared before me the above-named

to me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be  
 their free act and deed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

Notary Public