

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

| <b>SUBMISSION TYPE:</b>  | NEW ASSIGNMENT                    |               |                |                     |            |                      |            |                    |            |
|--|-----------------------------------|---------------|----------------|---------------------|------------|----------------------|------------|--------------------|------------|
| <b>NATURE OF CONVEYANCE:</b>   | ASSIGNMENT                        |               |                |                     |            |                      |            |                    |            |
| <b>CONVEYING PARTY DATA</b>  |                                   |               |                |                     |            |                      |            |                    |            |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Frederick L. Hall</td> <td>06/13/2005</td> </tr> <tr> <td>Erlinda Maria Gordon</td> <td>06/13/2005</td> </tr> <tr> <td>W. French Anderson</td> <td>06/24/2005</td> </tr> </tbody> </table> |                                   | Name          | Execution Date | Frederick L. Hall   | 06/13/2005 | Erlinda Maria Gordon | 06/13/2005 | W. French Anderson | 06/24/2005 |
| Name   | Execution Date                    |               |                |                     |            |                      |            |                    |            |
| Frederick L. Hall  | 06/13/2005                        |               |                |                     |            |                      |            |                    |            |
| Erlinda Maria Gordon   | 06/13/2005                        |               |                |                     |            |                      |            |                    |            |
| W. French Anderson   | 06/24/2005                        |               |                |                     |            |                      |            |                    |            |
| <b>RECEIVING PARTY DATA</b>  |                                   |               |                |                     |            |                      |            |                    |            |
| <b>Name:</b>   | University of Southern California |               |                |                     |            |                      |            |                    |            |
| <b>Street Address:</b>   | 3716 South Hope Street, Suite 313 |               |                |                     |            |                      |            |                    |            |
| <b>City:</b>   | Los Angeles                       |               |                |                     |            |                      |            |                    |            |
| <b>State/Country:</b>  | CALIFORNIA                        |               |                |                     |            |                      |            |                    |            |
| <b>Postal Code:</b>  | 90007                             |               |                |                     |            |                      |            |                    |            |
| <b>PROPERTY NUMBERS Total: 1</b>   |                                   |               |                |                     |            |                      |            |                    |            |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>10223599</td> </tr> </tbody> </table>  |                                   | Property Type | Number         | Application Number: | 10223599   |                      |            |                    |            |
| Property Type  | Number                            |               |                |                     |            |                      |            |                    |            |
| Application Number:  | 10223599                          |               |                |                     |            |                      |            |                    |            |
| <b>CORRESPONDENCE DATA</b>   |                                   |               |                |                     |            |                      |            |                    |            |
| <b>Fax Number:</b>   | (650)493-6811                     |               |                |                     |            |                      |            |                    |            |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>   |                                   |               |                |                     |            |                      |            |                    |            |
| <b>Phone:</b>  | 650-493-9300                      |               |                |                     |            |                      |            |                    |            |
| <b>Email:</b>  | apalladino@wsgr.com               |               |                |                     |            |                      |            |                    |            |
| <b>Correspondent Name:</b>   | Shirley Chen, Ph.D., Esq.         |               |                |                     |            |                      |            |                    |            |
| <b>Address Line 1:</b>   | 650 Page Mill Road                |               |                |                     |            |                      |            |                    |            |
| <b>Address Line 4:</b>   | Palo Alto, CALIFORNIA 94304       |               |                |                     |            |                      |            |                    |            |
| <b>ATTORNEY DOCKET NUMBER:</b>   | 30863-707.303                     |               |                |                     |            |                      |            |                    |            |
| <b>NAME OF SUBMITTER:</b>  | Shirley Chen, Ph.D., Esq.         |               |                |                     |            |                      |            |                    |            |
| <b>Total Attachments: 2</b><br>source=Assignment#page1.tif<br>source=Assignment#page2.tif  |                                   |               |                |                     |            |                      |            |                    |            |

CH \$40.00 10223599

**PATENT**

RECORDATION FORM COVER SHEET

PATENTS ONLY

To the Director of the U.S. Patents and Trademark Office: Please record the attached documents or the new address(es) below.

1. **Name of conveying party(ies)**  
Frederick L. Hall, Erlinda Maria Gordon, W. French Anderson  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. **Name and address of receiving party(ies):**  
Name: University of Southern California  
Internal Address: \_\_\_\_\_

3. **Nature of conveyance/Execution Date(s):**  
Execution Date(s) 6/13/05; 6/13/05; 6/24/05  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
Other \_\_\_\_\_

Street Address: 3716 South Hope Street, Suite 313  
City: Los Angeles  
State: CA  
Country USA Zip 90007  
Additional name(s) & address(es) attached?  Yes  No

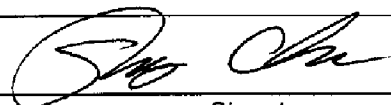
4. **Application number(s) or patent number(s):**  This document is being filed together with a new application.  
A. Patent Application No.(s) 10/223,599  
B. Patent No.(s): \_\_\_\_\_

Additional numbers attached?  Yes  No

5. **Name and address to whom correspondence concerning document should be mailed:**  
Name: Shirley Chen, Ph.D., Esq.  
Internal Address: Wilson Sonsini Goodrich & Rosati  
Street Address: 650 Page Mill Road  
City: Palo Alto  
State: CA Zip: 94304-1050  
Phone Number: (650) 493-9300  
Fax Number: (650) 493-6811  
Email Address: xschen@wsqr.com

6. **Total number of applications and patents involved:** 1  
7. **Total fee (37 CFR 1.21(h) & 3.41)** 40.00  
 Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

8. **Payment Information**  
Attorney Docket Number 30863-707.303  
Deposit account number: 23-2415  
Authorized User Name Wilson Sonsini Goodrich & Rosati

9. **Signature.**  \_\_\_\_\_  
Signature Date September 8, 2006

Shirley Chen, Ph.D. Esq., Reg. No. 44,608  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 2

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT OF APPLICATION

Docket Number 30863-707.302

Whereas, the undersigned:

- 1. HALL, Frederick L. Glendale, CA
- 2. GORDON, Erlinda Maria Glendale, CA
- 3. ANDERSON, W. French San Martino, CA

hereinafter termed "Inventors", have invented certain new and useful improvements in

RETROVIRAL VECTORS INCLUDING MODIFIED ENVELOPE ESCORT PROTEINS

- for which an application for United States Patent was filed on August 19, 2002, Application No. 10,223,599.
- for which a United States Patent issued on \_\_, U.S. Patent No. \_\_.

WHEREAS, University of Southern California, having a place of business at 3716 South Hope Street, Suite 313, Los Angeles, CA 90007, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefore and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date: 6-13-05

Frederick L. Hall

Date: June 13, 2005

Erlinda Maria Gordon

Date: 6/24/05

W. French Anderson