

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE:  | NEW ASSIGNMENT                     |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
|---|------------------------------------|---------------|------------------------------------|---------------------|--------------------|-------------------|------------|------------------------|------------|----------------|--------|--------------|-------|
| NATURE OF CONVEYANCE:   | ASSIGNMENT                         |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| <b>CONVEYING PARTY DATA</b>   |                                    |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Andras Gruber</td> <td>02/10/2010</td> </tr> <tr> <td>Erik Ian Tucker</td> <td>03/16/2010</td> </tr> <tr> <td>Stephen Raymond Hanson</td> <td>02/15/2010</td> </tr> </tbody> </table>   |                                    | Name          | Execution Date                     | Andras Gruber       | 02/10/2010         | Erik Ian Tucker   | 03/16/2010 | Stephen Raymond Hanson | 02/15/2010 |                |        |              |       |
| Name  | Execution Date                     |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| Andras Gruber   | 02/10/2010                         |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| Erik Ian Tucker   | 03/16/2010                         |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| Stephen Raymond Hanson  | 02/15/2010                         |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| <b>RECEIVING PARTY DATA</b>   |                                    |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Oregon Health &amp; Science University</td> </tr> <tr> <td>Street Address:</td> <td>2525 SW 1st Avenue</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 120</td> </tr> <tr> <td>City:</td> <td>Portland</td> </tr> <tr> <td>State/Country:</td> <td>OREGON</td> </tr> <tr> <td>Postal Code:</td> <td>97201</td> </tr> </table> |                                    | Name:         | Oregon Health & Science University | Street Address:     | 2525 SW 1st Avenue | Internal Address: | Suite 120  | City:                  | Portland   | State/Country: | OREGON | Postal Code: | 97201 |
| Name:   | Oregon Health & Science University |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| Street Address:   | 2525 SW 1st Avenue                 |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| Internal Address:   | Suite 120                          |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| City:   | Portland                           |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| State/Country:  | OREGON                             |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| Postal Code:  | 97201                              |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| <b>PROPERTY NUMBERS Total: 2</b>  |                                    |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>60989523</td> </tr> <tr> <td>PCT Number:</td> <td>US0884336</td> </tr> </tbody> </table>  |                                    | Property Type | Number                             | Application Number: | 60989523           | PCT Number:       | US0884336  |                        |            |                |        |              |       |
| Property Type   | Number                             |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| Application Number:   | 60989523                           |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| PCT Number:   | US0884336                          |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| <b>CORRESPONDENCE DATA</b>  |                                    |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| <p>Fax Number: (503)595-5301<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 503-595-5300</p> <p>Email: cynthia.shaw@klarquist.com</p> <p>Correspondent Name: Klarquist Sparkman, LLP</p> <p>Address Line 1: 121 SW Salmon Street</p> <p>Address Line 2: Suite 1600</p> <p>Address Line 4: Portland, OREGON 97204</p>   |                                    |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| ATTORNEY DOCKET NUMBER:   | 899-84280-02                       |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |
| NAME OF SUBMITTER:  | Jodi L. Connolly, Ph.D.            |               |                                    |                     |                    |                   |            |                        |            |                |        |              |       |

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**501120335**

**PATENT**  
**REEL: 024087 FRAME: 0137**

**Total Attachments: 8**

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## ASSIGNMENT

WHEREAS, we, Andras Gruber, of Portland, Oregon, Erik Ian Tucker, of Portland, Oregon, and Stephen Raymond Hanson, of Beaverton, Oregon, (along with David Gailani), have invented a certain invention as described in the following patent applications:

U.S. Provisional Patent Application No. 60/989,523, filed on November 21, 2007, entitled "ANTI-FACTOR XI MONOCLONAL ANTIBODIES AND METHODS OF USE THEREOF," and

PCT Patent Application No. PCT/US2008/084336, filed on November 21, 2008, entitled "ANTI-FACTOR XI MONOCLONAL ANTIBODIES AND METHODS OF USE THEREOF,"

which applications are collectively referred to as "the patent applications."

WHEREAS, Oregon Health & Science University, a corporation organized under the laws of the State of Oregon, having a place of business at Office of Technology & Research Collaborations, 2525 SW 1st Avenue, Suite #120, Portland, Oregon 97201, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Andras Gruber, Erik Ian Tucker and Stephen Raymond Hanson, hereby sell, assign and transfer to Oregon Health & Science University, our full and exclusive right, title and interest in and to said invention, patent application and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, the patent applications and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by Oregon Health & Science University, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted the United States or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to Oregon Health & Science University, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign

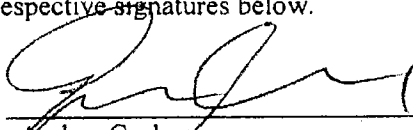
all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid Oregon Health & Science University, its successors and assigns to obtain and enforce proper patent protection for said invention in the United States or any foreign country.

We confirm that at the time the invention was made, we were under an obligation to assign the invention to Oregon Health & Science University.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed at the place and date opposite our respective signatures below.

At Portland, Oregon on this 10<sup>th</sup> day of February, 2010.  
(City and State)

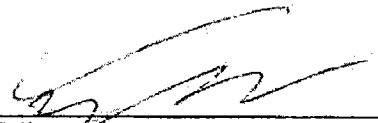
  
\_\_\_\_\_  
Andras Gruber

STATE OF OREGON                    )  
  )   ss.  
COUNTY OF                        )

This \_\_\_\_ day of \_\_\_\_\_, 2010, before me personally came the above-named Andras Gruber, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Andras Gruber's own free will for the purpose set forth therein.

\_\_\_\_\_  
Notary Public For Oregon  
My commission expires:

[SEAL]

  
Erik Ian Tucker

At Portland, OR on this 16<sup>th</sup> day of March, 2010.  
(City and State)

STATE OF OREGON                    )  
  )   ss.  
COUNTY OF                        )

This \_\_\_ day of \_\_\_\_\_, 2010, before me personally came the above-named Erik Ian Tucker, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Erik Ian Tucker's own free will for the purpose set forth therein.

\_\_\_\_\_  
Notary Public For Oregon  
My commission expires:

[SEAL]

\_\_\_\_\_  
Stephen Raymond Hanson

At \_\_\_\_\_ on this \_\_\_\_ day of \_\_\_\_\_, 2010.  
(City and State)

STATE OF OREGON            )  
                                  ) ss.  
COUNTY OF                )

This \_\_\_\_ day of \_\_\_\_\_, 2010, before me personally came the above-named  
Stephen Raymond Hanson, who executed the foregoing instrument in my presence, and who  
acknowledged to me that this instrument was executed by Stephen Raymond Hanson's own free  
will for the purpose set forth therein.

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[SEAL]

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all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid Oregon Health & Science University, its successors and assigns to obtain and enforce proper patent protection for said invention in the United States or any foreign country.

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Executed at the place and date opposite our respective signatures below.

\_\_\_\_\_  
Andras Gruber

At \_\_\_\_\_ on this \_\_\_\_ day of \_\_\_\_\_, 2010.  
(City and State)

STATE OF OREGON                    )  
  )    ss.  
COUNTY OF                        )

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\_\_\_\_\_  
Notary Public For Oregon  
My commission expires:

[SEAL]



\_\_\_\_\_  
Erik Ian Tucker


At \_\_\_\_\_ on this \_\_\_\_ day of \_\_\_\_\_, 2010.  
(City and State)

STATE OF OREGON                    )  
  )    ss.  
COUNTY OF                        )

This \_\_\_\_ day of \_\_\_\_\_, 2010, before me personally came the above-named Erik Ian Tucker, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Erik Ian Tucker's own free will for the purpose set forth therein.

\_\_\_\_\_  
Notary Public For Oregon  
My commission expires:

[SEAL]

  
Stephen Raymond Hanson

At Portland Oregon on this 15 day of Feb., 2010.  
(City and State)

STATE OF OREGON                    )  
  )    ss.  
COUNTY OF                        )

This \_\_\_\_ day of \_\_\_\_\_, 2010, before me personally came the above-named Stephen Raymond Hanson, who executed the foregoing instrument in my presence, and who acknowledged to me that this instrument was executed by Stephen Raymond Hanson's own free will for the purpose set forth therein.

\_\_\_\_\_  
Notary Public For Oregon  
My commission expires:

[SEAL]