

## PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Richard P. Darveau</td><td>01/17/2006</td></tr><tr><td>Robert Reife</td><td>01/09/2006</td></tr><tr><td>Keith Knutson</td><td>03/20/2006</td></tr></tbody></table>	Name	Execution Date	Richard P. Darveau	01/17/2006	Robert Reife	01/09/2006	Keith Knutson	03/20/2006	
Name	Execution Date								
Richard P. Darveau	01/17/2006								
Robert Reife	01/09/2006								
Keith Knutson	03/20/2006								
RECEIVING PARTY DATA									
Name:	University of Washington								
Street Address:	UW Tech Transfer - Invention Licensing								
Internal Address:	4311 11th Avenue NE, Suite 500								
City:	Seattle								
State/Country:	WASHINGTON								
Postal Code:	98105-4608								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11301542</td></tr></tbody></table>	Property Type	Number	Application Number:	11301542					
Property Type	Number								
Application Number:	11301542								
CORRESPONDENCE DATA									
Fax Number:	(206)623-6793								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	206-467-9600								
Email:	mmmartinenko@townsend.com								
Correspondent Name:	Steven W. Parmelee								
Address Line 1:	Townsend and Townsend and Crew LLP								
Address Line 2:	Two Embarcadero Center, 8th Flr.								
Address Line 4:	San Francisco, CALIFORNIA 94111-3834								
ATTORNEY DOCKET NUMBER:	016336-002800US								
NAME OF SUBMITTER:	Masha M. Martinenko								

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PATENT  
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**Total Attachments: 9**

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ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, RICHARD P. DARVEAU of 11020 132nd Avenue N.E., Redmond, WA 98052; ROBERT REIFE of 15805 N.E. 95th Way, Redmond, WA 98052; and KEITH KNUTSON of 810 Sierra Lane N.E., Rochester, MN 55906, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: PORPHYROMONAS GINGIVALIS 1435/1449 LPS AS AN IMMUNE MODULATOR

Filing Date: December 13, 2005

Application No.: 11/301,542; and

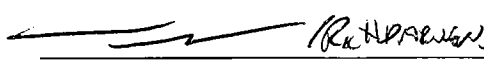
WHEREAS, the UNIVERSITY OF WASHINGTON, a public institute of higher education, having a place of business at Seattle, Washington, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 11/17/06

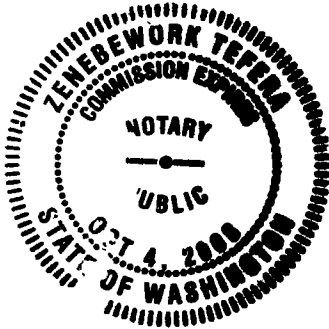
  
Richard P. Darveau

STATE OF WASHINGTON     )  
                                      )  
COUNTY OF KING         )     ss.

On 11/17/06, before me, ZENEBEWORK TEFERA  
(notary public), personally appeared Richard P. Darveau, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and

acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Zenebework Tefera  
Notary Public  
My Commission expires: 10/04/08

Dated: \_\_\_\_\_

\_\_\_\_\_  
Robert Reife

STATE OF WASHINGTON     )  
                                      )  
COUNTY OF KING         )

ss.

On \_\_\_\_\_, before me, \_\_\_\_\_  
(notary public), personally appeared Robert Reife, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public  
My Commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Keith Knutson

STATE OF MINNESOTA     )  
                                      )  
COUNTY OF OLMSTED     )

ss.

On \_\_\_\_\_, before me, \_\_\_\_\_  
(notary public), personally appeared Keith Knutson, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and

Assignment

Attorney Docket No.: 016336-002800US

Page 3

acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

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

My Commission expires: \_\_\_\_\_

60671705 v1

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, RICHARD P. DARVEAU of 11020 132nd Avenue N.E., Redmond, WA 98052; ROBERT REIFE of 15805 N.E. 95th Way, Redmond, WA 98052; and KEITH KNUTSON of 810 Sierra Lane N.E., Rochester, MN 55906, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

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IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: \_\_\_\_\_

Richard P. Darveau

STATE OF WASHINGTON )

COUNTY OF KING )

ss.

On \_\_\_\_\_, before me, \_\_\_\_\_  
(notary public), personally appeared Richard P. Darveau, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and

acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public  
My Commission expires: \_\_\_\_\_

Dated: 1/9/06

R. Reife  
Robert Reife

STATE OF WASHINGTON )  
COUNTY OF KING ) ss.

On Jan. 9, 2006, before me, Brenda Kreitzberg  
(notary public), personally appeared Robert Reife, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Brenda Kreitzberg  
Notary Public  
My Commission expires: 7/1/08

Dated: \_\_\_\_\_

\_\_\_\_\_  
Keith Knutson

STATE OF MINNESOTA )  
COUNTY OF OLMSTED ) ss.

On \_\_\_\_\_, before me, \_\_\_\_\_  
(notary public), personally appeared Keith Knutson, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and

Assignment

Attorney Docket No.: 016336-002800US

Page 3

acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

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

My Commission expires: \_\_\_\_\_

60671705 v1



ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, RICHARD P. DARVEAU of 11020 132nd Avenue N.E., Redmond, WA 98052; ROBERT REIFE of 15805 N.E. 95th Way, Redmond, WA 98052; and KEITH KNUTSON of 810 Sierra Lane N.E., Rochester, MN 55906, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

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IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: \_\_\_\_\_

Richard P. Darveau

STATE OF WASHINGTON     )  
                                      )  
COUNTY OF KING         )

ss.

On \_\_\_\_\_, before me, \_\_\_\_\_  
(notary public), personally appeared Richard P. Darveau, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and

Assignment  
Attorney Docket No.: 016336-002800US  
Page 2

acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public  
My Commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Robert Reife

STATE OF WASHINGTON     )  
                                      )  
COUNTY OF KING         )     ss.

On \_\_\_\_\_, before me, \_\_\_\_\_  
(notary public), personally appeared Robert Reife, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public  
My Commission expires: \_\_\_\_\_

Dated: 3-20-06

  
\_\_\_\_\_  
Keith Knutson

STATE OF MINNESOTA     )  
                                      )  
COUNTY OF OLMSTED     )     ss.

On March 20, 2006, before me, Alice J. Golla  
(notary public), personally appeared Keith Knutson, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and

Page 2 of 3

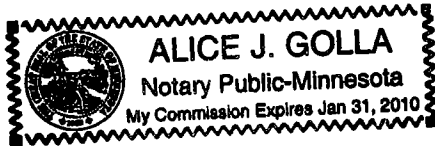
Assignment

Attorney Docket No.: 016336-002800US

Page 3

acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Alice J. Golla  
Notary Public  
My Commission expires: Jan. 31, 2010

60671705 v1