

PATENT ASSIGNMENT

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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>Alan ADEREM</td> <td>10/21/2002</td> </tr> <tr> <td>Adrian OZINSKY</td> <td>08/15/2002</td> </tr> <tr> <td>Kelly D. SMITH</td> <td>08/15/2002</td> </tr> <tr> <td>David M. UNDERHILL</td> <td>08/15/2002</td> </tr> <tr> <td>Fumitaka HAYASHI</td> <td>08/21/2002</td> </tr> </tbody> </table>		Name	Execution Date	Alan ADEREM	10/21/2002	Adrian OZINSKY	08/15/2002	Kelly D. SMITH	08/15/2002	David M. UNDERHILL	08/15/2002	Fumitaka HAYASHI	08/21/2002
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Fumitaka HAYASHI	08/21/2002												
RECEIVING PARTY DATA													
Name:	THE INSTITUTE FOR SYSTEMS BIOLOGY												
Street Address:	401 Terry Avenue North												
City:	Seattle												
State/Country:	WASHINGTON												
Postal Code:	98109												
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>13191093</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13191093								
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Application Number:	13191093												
CORRESPONDENCE DATA													
Fax Number:	8587205125												
Phone:	8587205136												
Email:	NSANNICOLAS@MOFO.COM												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	KATE H. MURASHIGE												
Address Line 1:	12531 HIGH BLUFF DRIVE, SUITE 100												
Address Line 2:	MORRISON & FOERSTER LLP												
Address Line 4:	SAN DIEGO, CALIFORNIA 92130												
ATTORNEY DOCKET NUMBER:	655652000202												
NAME OF SUBMITTER:	Kate H. Murashige												

PATENT

Total Attachments: 7

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ASSIGNMENT

This Assignment is made by Alan Aderem, Adrian Ozinsky, Kelly D. Smith and David M. Underhill, all of Seattle, Washington, and Fumitaka Hayashi of North Quincy, Massachusetts, Assignors, to THE INSTITUTE FOR SYSTEMS BIOLOGY, Assignee, having a place of business at 1441 North 34th Street, Seattle, Washington.

WHEREAS, Assignors have invented new and useful TOLL-LIKE RECEPTOR 5 LIGANDS AND METHODS OF USE for which an application for United States Letters Patent was filed on April 17, 2002, in the United States Patent and Trademark Office, bearing Serial No. 10/125,692 and identified as Attorney Docket No: P-IS 5155, and for which an international application was filed in a receiving office for the Patent Cooperation Treaty on July 20, 2001, bearing Serial No. PCT/US01/22978, and identified as Attorney Docket No. FP-IS 4860.

WHEREAS, Assignors believe themselves to be the original inventors of the invention disclosed and claimed in said application for Letters Patent; and

WHEREAS, the parties desire to have a recordable instrument assigning an undivided part interest of Assignors' right, title and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world;

WHEREAS, Assignor is simultaneously assigning an undivided part interest in and to said invention to the UNIVERSITY OF WASHINGTON, these two assignments constituting an assignment of the entirety of Assignor's right, title and interest in and to said inventor;

Inventors: Aderem et al.
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NOW, THEREFORE, in accordance with the obligations to assign the invention and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors sell, assign, and transfer to Assignee, an undivided part interest of Assignors' right, title, and interest in and to said invention, said application, any applications entitled to benefit of priority to said application under Title 35, United States Code, Sections 120, 121 or 251, which include divisionals, continuations and reissues, and any Letters Patent that may be granted on said invention or these applications and any Letters Patent that may be granted for said invention in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignors agree that, upon request and without further compensation, but at no expense to Assignors, they and their legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing Letters Patent in the United States and throughout the world for said invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said invention, said application, and any Letters Patent granted for said invention in the United States and throughout the world.

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Assignors represent and warrant that they have not granted and will not grant to others any rights inconsistent with the rights as stated herein.

Assignors authorize and request that any United States or foreign Letters Patent granted for said invention, whether on said application or on any subsequently filed divisional, continuation or reissue application, be issued to Assignee, its successors and assigns, as the assignee of an undivided part interest of Assignors interest in said invention.

IN WITNESS WHEREOF, Assignors have executed this Assignment on the date(s) provided below.

Assignor: Alan Aderem

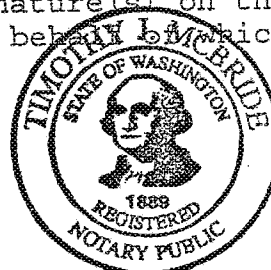
AL AD 10/21/2002
Signature Date

STATE OF Washington)
COUNTY OF King)

On 21 Oct 02 before me, Timothy J. McBride
personally appeared Alan Aderem
 personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS by hand and official seal.

Timothy J. McBride
(Signature of Notary)



EXPIRES: 09/01/2004

Inventors: Aderem et al.
Serial No.: 10/125,692
Filed: April 17, 2002
Page 4

Assignor: Fumitaka Hayashi

[Signature] 8/21/02
Signature Date

STATE OF MA
COUNTY OF Suffolk)

On August 21, 2002, before me, Fumitaka Hayashi,
personally appeared, Deborah A. Parker,
personally known to me - OR - proved to me on the basis
of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized
capacity(ies), and that by his/her/their signature(s) on the
instrument the person(s), or the entity upon behalf of which the
person(s) acted, executed the instrument.

WITNESS by hand and official seal.

[Signature]
(Signature of Notary)

Deborah A. Parker
September 12, 2008

Inventors: Aderem et al.
Serial No.: 10/125,692
Filed: April 17, 2002
Page 5

Assignor: Kelly D. Smith

Kelly D. Smith 8/15/02
Signature Date

STATE OF Washington ;
COUNTY OF King ;

On 8/15/02, before me, Twana Johnson,
personally appeared Kelly Smith,
 personally known to me - OR - proved to me on the basis
of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized
capacity(ies), and that by his/her/their signature(s) on the
instrument the person(s), or the entity upon behalf of which the
person(s) acted, executed the instrument.

WITNESS by hand and official seal.

Twana Johnson
(Signature of Notary)



EXPIRES: 09/01/2004

Inventors: Aderem et al.
Serial No.: 10/125,692
Filed: April 17, 2002
Page 6

Assignor: David M. Underhill

David M. Underhill 8/15/02
Signature Date

STATE OF Washington)
COUNTY OF King)

On 8/15/02, before me, Twana Johnson,
personally appeared DAVID UNDERHILL,
 personally known to me - OR - ___ proved to me on the basis
of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized
capacity(ies), and that by his/her/their signature(s) on the
instrument the person(s), or the entity upon behalf of which the
person(s) acted, executed the instrument.

WITNESS by hand and official seal.

Twana Johnson
(Signature of Notary)



EXPIRES: 09/01/2004

Inventors: Aderem et al.
Serial No.: 10/125,692
Filed: April 17, 2002
Page 7

Assignor: Adrian Ozinsky

[Signature] 8/15/02
Signature Date

STATE OF Washington)
COUNTY OF King)

On 8/15/02, before me Twana Johnson
personally appeared ADRIAN OZINSKY
 personally known to me - OR - proved to me on the basis
of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized
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WITNESS by hand and official seal.

Twana Johnson
(Signature of Notary)



EXPIRES: 09/01/2004