

# 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>Nobuyuki MATSUNAGA</td> <td>09/17/2010</td> </tr> <tr> <td>Yoshihisa NAKADA</td> <td>09/17/2010</td> </tr> <tr> <td>Yusuke OHBA</td> <td>09/17/2010</td> </tr> <tr> <td>Hideyuki NAKAGAWA</td> <td>09/21/2010</td> </tr> </tbody> </table>		Name	Execution Date	Nobuyuki MATSUNAGA	09/17/2010	Yoshihisa NAKADA	09/17/2010	Yusuke OHBA	09/17/2010	Hideyuki NAKAGAWA	09/21/2010
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<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>TAKEDA PHARMACEUTICAL COMPANY LIMITED</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi,</td> </tr> <tr> <td>City:</td> <td>Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>541-0045</td> </tr> </table>		Name:	TAKEDA PHARMACEUTICAL COMPANY LIMITED	Street Address:	1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi,	City:	Osaka	State/Country:	JAPAN	Postal Code:	541-0045
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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (202)721-8250</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2027218200</p> <p>Email: wlp@wenderoth.com</p> <p>Correspondent Name: WENDEROTH, LIND &amp; PONACK, LLP</p> <p>Address Line 1: 1030 15th Street, N.W.</p> <p>Address Line 2: Suite 400 East</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20005</p>											
ATTORNEY DOCKET NUMBER:	2010_1302A										
NAME OF SUBMITTER:	Donna King										
Total Attachments: 2											

OP \$40.00 12936291

**501310059**

**PATENT**  
**REEL: 025087 FRAME: 0175**

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# ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Insert Name(s) of Inventor(s) Nobuyuki MATSUNAGA, Yoshihisa NAKADA, Yusuke OHBA and Hideyuki NAKAGAWA

the undersigned hereby sell(s) and assign(s) to

Insert Name(s) of Assignee(s) Takeda Pharmaceutical Company Limited  
Address of 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045 Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

Title of Invention HETEROCYCLIC DERIVATIVE AND USE THEREOF

for which an application for patent in the United States of America has resulted from International Application Serial No. PCT/JP2009/056994 filed on April 3, 2009

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 1030 15th Street, N.W., Suite 400 East, Washington, D.C. 20005-1503, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date Sep, 17, 2010, Name of the Inventor Nobuyuki Matsunaga  
Nobuyuki MATSUNAGA

Date Sep, 17, 2010, Name of the Inventor Yoshihisa Nakada  
Yoshihisa NAKADA

Date Sep. 17, 2010, Name of the Inventor Yusuke Ohba  
Yusuke OHBA

Date Sep, 21, 2010, Name of the Inventor Hideyuki Nakagawa  
Hideyuki NAKAGAWA

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness Takeshi Yamamoto  
Takeshi YAMAMOTO

Witness Hideyuki Igawa  
Hideyuki IGAWA

### ACKNOWLEDGMENT

\_\_\_\_\_  
\_\_\_\_\_ } ss

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came the above-named me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

SEAL

\_\_\_\_\_  
Official Signature

\_\_\_\_\_  
Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. \_\_\_\_\_ Filing Date \_\_\_\_\_

Applicant Reference Number \_\_\_\_\_ Atty Docket No. \_\_\_\_\_

Title of Invention \_\_\_\_\_