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copy(ies) thereof.

To the Assistant Commissioner for Patents: Please re

1. Name of conveying party(ies):

Satoshi OMURA
Masayasu KATO
Miichiro ARITAAdditional name(s) of conveying party(ies) attached? No

3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	Merger
Security Agreement	Change of Name
Other	

Execution Date: October 21 and 26, 1998

2. Name and address of receiving party(ies):

Name: TAKEDA CHEMICAL INDUSTRIES, LTD.Street Address: 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 541, Japan

&

Name: THE KITASATO INSTITUTEStreet Address: 9-1, Shirokane 5-chome, Minato-ku, Tokyo 108, JapanAdditional name(s) & address(es) attached? No

4. Application number(s) or patent number(s):

() This document is being filed together with a new application, and the execution date of the application is:

A. Patent Application No.

09/143,365

B. Patent No.

Additional numbers attached? No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: WENDEROTH, LIND & PONACK, L.L.P.

Internal Address: _____

Street Address: 2033 K Street, N.W., Suite 800City: Washington, State: DC ZIP: 200066. Total number of applications and patents involved: 17. Total fee (37 C.F.R. § 3.41). \$40.00

[98-0946*/WMC/280]

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*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Warren M. Cheek, Jr., Reg. No. 33,367

Name of Person Signing

SignatureNovember 2, 1998

Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:

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Box Assignments

Washington, D.C. 20231

11/05/1998 SBURMS 00000119 09143365

01 FC:581

40.00 DP

ASSIGNMENT

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

Satoshi ŌMURA

Masayasu KATO

Insert Name(s)
of Inventor(s)

Miichiro ARITA

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

Insert Name(s)
of Assignee(s)

Takeda Chemical Industries Ltd. and The Kitasato Institute

Address

of 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 541 Japan and
9-1, Shirokane 5-chome, Minato-ku, Tokyo 108 Japan, respectively
(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

METHOD OF PRODUCING ERYTHROMYCIN DERIVATIVE

Date of Signing
of Application

for which an application for patent in the United States has been executed by the undersigned on

October 21 and 26, 1998

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, Southern Building, Suite 700, 805 Fifteenth Street, N.W., Washington, D.C. 20005, 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 Oct. 21, 1998, Name of Inventor Satoshi Omura (Satoshi OMURA)
Date October 26, 1998, Name of Inventor Masayasu Kato (Masayasu KATO)
Date October 26, 1998, Name of Inventor Miichiro Arita (Miichiro ARITA)
Date _____, Name of Inventor _____
Date _____, Name of Inventor _____
Date _____, Name of Inventor _____

(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 Muzuru Iwari Oct. 21, 1998 Yoko Suzuki Oct. 21, 1998
Witness Kyoko Nakai Oct. 26, '98 Nakamichi Oct. 26, '98

ACKNOWLEDGEMENT

_____ } ss

This _____ day of _____, 19_____, before me
personally came the above-named _____

to 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. 09/143,365 Filing Date August 28, 1998
Applicant Reference Number 2405USOP Atty Docket No. _____
Title of Invention METHOD OF PRODUCING ERYTHROMYCIN DERIVATIVE
