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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Hisao KASUGA, Masami ISAKA, and Kunio MATSUOKA Additional name(s) of conveying party(ies) attached? <u>No</u>		2. Name and address of receiving party(ies): Name: <u>TAKEDA CHEMICAL INDUSTRIES, LTD.</u> Internal Address: Street Address: <u>1-1, Doshomachi 4-chome, Chuo-ku</u> City: <u>Osaka</u> , Country: <u>Japan</u> Zip: <u>540-8645</u> Additional name(s) & address(es) attached? <u>No</u>				
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>October 4, 1999</u>						
4. Application number(s) or patent number(s): Title: <u>25-Hydroxyvitamin D₃ 24-hydroxylase Transgenic Animals</u> If this document is being filed together with a new application, the execution date of the application is : <u>Oct. 4, 1999</u> A. Patent Application No.(s) <u>09/423011</u> B. Patent No.(s) Additional numbers attached? <u>No</u>						
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Philippe Y. Riesen</u> <u>Takeda Chemical Industries, Ltd.</u> <u>Intellectual Property Department</u> Street Address: <u>17-85, Jusohonmachi 2-chome,</u> <u>Yodogawa-ku</u> City: <u>Osaka</u> Country <u>Japan</u> Zip: <u>532-8686</u>		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 C.F.R. §3.41) <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>500799</u> (Attach duplicate copy of this page if paying by deposit account)				
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9. Statement and signature. <i>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.</i> <table style="width: 100%;"> <tr> <td style="width: 30%;"> <u>Philippe Y. Riesen (No. 35,657)</u> Name of the Person signing </td> <td style="width: 30%; text-align: center;"> Signature </td> <td style="width: 40%; text-align: right;"> <u>October 25, 1999</u> Date </td> </tr> </table> Total number of pages including cover sheet, attachment, and document: <u>3</u>				<u>Philippe Y. Riesen (No. 35,657)</u> Name of the Person signing	 Signature	<u>October 25, 1999</u> Date
<u>Philippe Y. Riesen (No. 35,657)</u> Name of the Person signing	 Signature	<u>October 25, 1999</u> Date				

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

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor hereby sells and assigns, to TAKEDA CHEMICAL INDUSTRIES LTD., a corporation of Japan, 1-1, Doshomachi 4-chome, Chuo-ku, Osaka, Japan (hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to the following invention and U.S. application filed thereon, and the entire right, title and interest in and to any and all Letters Patents which may be granted therefor in the United States, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made.

Title of Invention : 25-Hydroxyvitamin D₃ 24-hydroxylase Transgenic Animals

United States Patent Application :

☒ [XX] executed concurrently herewith
☐ [] executed on _____
☐ [] Serial No. _____ Filed _____

Each of the undersigned acknowledges that this sale and assignment includes any and all divisions or continuations of said United States Patent application, and any and all Letters Patent of the United States which may issue on any such applications, including any and all reissues or extensions thereof.

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, assist in and testify in any related proceedings including interferences or lawsuits concerning this application or continuation, division or reissue thereof, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to obtain a grant of a valid United States Patent on said invention;

Each of the undersigned hereby grants ASSIGNEE and its legal representatives, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment and specifically, the power to insert in the space provided above, the filing date and application number of the application when known.

In witness hereof, executed by the undersigned on the date(s) opposite the undersigned names.

NAMES AND SIGNATURES OF INVENTORS		
1.Name: Hisao KASUGA	Signature: <i>Hisao Kasuga</i>	Date: <i>October 4, 1999</i>
2.Name: Masami ISAKA	Signature: <i>Masami Isaka</i>	Date: <i>October 4, 1999</i>
3.Name: Kunio MATSUOKA	Signature: <i>Kunio Matsuoaka</i>	Date: <i>October 4, 1999</i>
4.Name:	Signature:	Date:
5.Name:	Signature:	Date:
6.Name:	Signature:	Date:
NAMES AND SIGNATURES OF WITNESSES*		
Name/Shigehisa TAKETOMI For: 1-3	Signature: <i>Shigehisa Taketomi</i>	Date: <i>October 4, 1999</i>
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*Notice for Witnesses! Please indicate which inventor(s) you are signing for by writing the corresponding numbers after "For:"