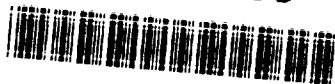


12-22-1998

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ET



100927204

MAB  
12-14-98

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

## 1. Name of conveying party(ies):

Biogen, Inc.

## 2. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: 02 July 1998

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

GENENCOR INTERNATIONAL, INC.  
4 Cambridge Place, 1870 South Winton Road  
Rochester, New York 14618  
USAAdditional name(s) & address(es) attached? ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is:

## A. Patent Application No.(s)

07/045,859, filed 08/01/86  
(NOW: US PATENT No. 4,945,052, granted 31 July 1990)

## B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Margaret A. Horn  
Address: GENENCOR INTERNATIONAL, INC.  
925 Page Mill Road  
Palo Alto, California 94304-1013

## 6. Total number of applications and patents involved: 1

7. Total fee (34 CFR 3.41) \$ 40.00

- ☐ Enclosed  
☒ Authorized to be charged to deposit account

8. Deposit Account number: 07-1048

12/17/1998 JSNABAZZ 00000035 071048 4945052  
01 FC:581 40.00 CH

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy a true copy of the original document.

Margaret A. Horn

Name of Person Signing

Signature

7 December 1998

Date

Total number of pages comprising cover sheet:

4

## ASSIGNMENT

BIOGEN, INC. a Massachusetts corporation having a place of business at 14 Cambridge Center, Cambridge, MA 02142 and its successors and assigns (collectively hereinafter called "Biogen") have made the inventions and discoveries disclosed and claimed in an application for Letters Patent in the United States, entitled **PRODUCTION OF A VITAMIC C PRECURSOR USING GENETICALLY MODIFIED ORGANISMS:**

and

[X] have made application for United States Letters Patent thereof, filed June 2, 1987, under Serial No. 07/045,859, filed as PCT/US/86/01571 on August 1, 1986, claiming priority to Great Britain Serial Number 8519536 (filed August 2, 1985).

BIOGEN, INC. for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to and do hereby sell, assign and transfer to

GENENCOR INTERNATIONAL, INC., a corporation organized and existing under the laws of the state of Delaware and having an office and place of business at 4 Cambridge Place, 1870 South Winton Road, Rochester, NY, its successors and assigns:

(1) the entire right, title and interest in the United States and in all countries throughout the world in and to said inventions, discoveries and application, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of GENENCOR INTERNATIONAL, INC., its designee, on the aforesaid inventions, discoveries and applications in all countries of the

world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

BIOGEN, INC. hereby authorizes and requests the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to GENENCOR INTERNATIONAL, INC., as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by BIOGEN, INC. had this assignment, sale and transfer not been made.

BIOGEN, INC. agrees, at any time, upon the request of GENENCOR INTERNATIONAL, INC., to execute and to deliver to GENENCOR INTERNATIONAL, INC., any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

BIOGEN, INC. further agrees at any time to execute and to deliver upon request of GENENCOR INTERNATIONAL, INC., such additional documents, if any, as are necessary or desirable to give full effect to, and to perfect the rights of, GENENCOR INTERNATIONAL, INC., under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary.

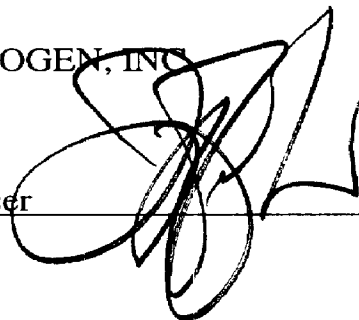
BIOGEN INC. agrees that, upon execution of this Agreement, GENENCOR INTERNATIONAL, INC. shall take over prosecution of the aforesaid assigned patents and patent applications and that BIOGEN, INC. shall transfer to

GENENCOR INTERNATIONAL, INC. copies of BIOGEN's patent prosecution files therefor.

ASSIGNOR: BIOGEN, INC.

James R. Tobin- President and Chief Executive Officer

(1)



On this 2<sup>nd</sup> day of July, 1998,

James R. Tobin (1) personally appeared before me, a Notary Public in and for the Commonwealth of Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

Ruth F. B. Meason  
Notary Public

My commission expires: 12/10/2004

h:\licenses\vitC\asgmt.doc