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7-12-99



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To the Honorable Commissioner of Patents and Trademarks, Washington, DC 20540
Original documents or copy thereof

10525 U.S. PTO
09/352168
07/12/99

1. Name of conveying party(ies):
Oswald Crasta and Otto Folkerts

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Curagen
555 Long Wharf Drive
11th Floor
New Haven, Connecticut 06511

Additional name(s) and address(es) attached? Yes No

3. Nature of conveyance:
 Assignment
 Security Agreement
 Other

Execution Date: July 7, 1999

Merger
 Change of Name

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: July 12, 1999

A. Patent Application No.(s)
09 352168

B. Patent No.(s)

Additional numbers attached? Yes No

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

Karen Moon Bruce
Pioneer Hi-Bred International, Inc.
Corporate Intellectual Property
7100 N.W. 62nd Avenue
P.O. Box 1000
Johnston, Iowa 50131-1000

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00
 Enclosed
 Authorized to be charged to deposit account
40E

8. Deposit account number: 16-1852.
(Attach a duplicate copy of this page if paying by deposit account)

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 is a true copy of the original document.

Karen Moon Bruce
Name of Person Signing

Signature

7/12/99
Date

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

CURAGEN
555 Long Wharf Drive, 11th Floor
New Haven, Connecticut 06511

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"AMINO POLYOL AMINE OXIDASE POLYNUCLEOTIDES AND RELATED POLYPEPTIDES AND METHODS OF USE"**

as set forth in this United States Patent Application

executed concurrently herewith
 executed on _____
 Serial No. _____ filed _____

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be of said inventions, and to testify in any proceedings relating to said inventions, patent applications, Letters Patent.

The undersigned hereby grant an authorized representative of Assignee 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.

Date 7-7-99

Otto Folkerts 

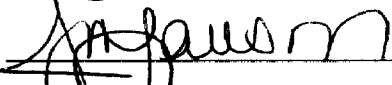
State of Connecticut)

County of New Haven)

ss.

I certify that I know or have satisfactory evidence that Otto Folkerts is the person who appeared before me and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated July 7, 1999

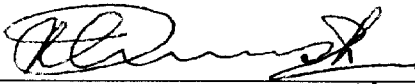
Signature of Notary Public 

Printed Name Jenell M. Lawson

My appointment expires 2/28/04

**JENELL MARIE LAWSON
NOTARY PUBLIC
MY COMMISSION EXPIRES FEB. 28, 2004**

7-7-99



Date _____

Oswald R. Crasta

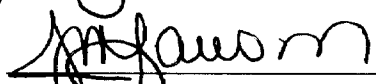
State of Connecticut)

ss.

County of New Haven)

I certify that I know or have satisfactory evidence that Oswald R. Crasta is the person who appeared before me and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated July 7, 1999

Signature of Notary Public 

Printed Name Jenell M. Lawson

My appointment expires 2/28/04

**JENELL MARIE LAWSON
NOTARY PUBLIC
MY COMMISSION EXPIRES FEB. 28, 2004**