

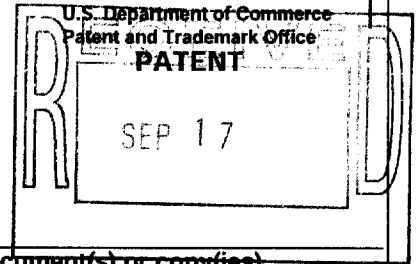
09-23-1999



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Certificate Under 37 CFR 1.8(a)

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RECORDATION FORM COVER SHEET PATENTS ONLY

MD 9-17-99

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

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Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other _____

U.S. Government
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Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached Execution Date Month Day Year

Name (line 1) Brad Bosworth 08/31/99

Name (line 2) _____

Second Party

Execution Date Month Day Year

Name (line 1) Julia Ridpath 08/31/99

Name (line 2) _____

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Biotechnology Research and Development Corporation

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2) 1815 North University

Address (line 1) _____

Address (line 2) _____

Address (line 3) Peoria Illinois 61604
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name _____

Address (line 1) _____

Address (line 2) _____

Address (line 3) _____

Address (line 4) _____

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Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

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RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date
Month Day Year

Name (line 1) Barry Wiseman

04/09/99

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1) U.S. of America as Represented by

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2) the Secretary of Agriculture

Address (line 1)

Address (line 2)

Address (line 3) Washington
City

D.C.
State/Country

20250
Zip Code

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City

State/Country

Zip Code

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/151,592

Correspondent Name and Address **Area Code and Telephone Number**

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

Pages **Enter the total number of pages of the attached conveyance document including any attachments.** #

Application Number(s) or Patent Number(s) **Mark if additional numbers attached**

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)			Patent Number(s)		
<input type="text" value="09/151,592"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Patent Cooperation Treaty (PCT)

Enter PCT application number PCT PCT
only if a U.S. Application Number PCT PCT
 has not been assigned.

Number of Properties **Enter the total number of properties involved.** #

Fee Amount **Fee Amount for Properties Listed (37 CFR 3.41):** \$

Method of Payment: Enclosed Deposit Account


Deposit Account
 (Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes No

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. Charges to deposit account are authorized, as indicated herein.

Alice O. Martin  September 20, 1999

Name of Person Signing **Signature** **Date**

ASSIGNMENT

WHEREAS, Brad Bosworth, Julia Ridpath and Barry Wiseman, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled INTERACTIONS BETWEEN GENOTYPE AND DIET IN SWINE THAT PREVENT E. COLI ASSOCIATED INTESTINAL DISEASE for a full description of which reference is here made to an application for Letters Patent of the United States filed on September 18, 1998, and assigned Application Serial No. 09/151592;

WHEREAS, Biotechnology Research and Development Corporation, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 1815 North University, Peoria, Illinois 61604, USA and U.S. of America as Represented by the Secretary of Agriculture, Washington, D.C. 20250, USA hereinafter called the "Co-Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Co-Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Co-Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Co-Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the

DATED:

4/2/99

Julia Ridpath
Julia Ridpath

STATE OF Iowa)

) SS.

COUNTY OF Story)

I, Mark Leeper, A Notary Public in and for the County and State aforesaid, do hereby certify that Julia Ridpath, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that she signed, sealed and delivered the said instrument as her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 2nd day of April, 1999

Mark R. Leeper
Notary Public

(SEAL)

My Commission Expires:



DATED:

4-9-99

Barry Wiseman
Barry Wiseman

STATE OF New Jersey)
) SS.
COUNTY OF Somerset)

I, LEENA GANDHI, A Notary Public in and for the County and State aforesaid, do hereby certify that Barry Wiseman, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 9th day of April, 1999

Leena Gandhi
Notary Public

(SEAL)
My Commission Expires:

LEENA GANDHI
Notary Public of New Jersey
My Commission Expires Nov. 3, 1999