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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
**BIOTECHNOLOGY RESEARCH AND DEVELOPMENT CORPORATION**  
Additional names(s) of conveying party(ies)  Yes  No

2. Name and address of receiving party(ies):  
Name: **THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS**  
Address: **319 CERAMICS BLDG  
105 S. GOODWIN AVENUE**  
City: **URBANA** State/Prov.: **IL**  
Country: **USA** ZIP: **61801**  
Additional name(s) & address(es)  Yes  No

3. Nature of conveyance:  
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Execution Date: **7/16/03**

4. Application number(s) or patent numbers(s):  
If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_  
Patent Application No. Filing date B. Patent No.(s)  
**5,466,589**  
Additional numbers  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **SALLY A. SULLIVAN**  
Registration No. **32,064**  
Address: **GREENLEE, WINNER AND SULLIVAN  
5370 MANHATTAN CIRCLE  
SUITE 201**  
City: **BOULDER** State/Prov.: **CO**  
Country: **USA** ZIP: **80303**

6. Total number of applications and patents involved: **1**  
7. Total fee (37 CFR 3.41):.....\$ **40.00**  
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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.*  
**SALLY A. SULLIVAN** *Sally A Sullivan* **10/15/03**  
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PATENT

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ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT, effective July 16, 2003, by and between Biotechnology Research and Development Corporation, a Delaware corporation, with offices at 1815 North University Street, Peoria, Illinois 61604 ("ASSIGNOR") and The Board of Trustees of the University of Illinois, with offices at 319 Ceramics Bldg., 105 S. Goodwin Avenue, Urbana, Illinois 61801 ("ASSIGNEE");

WHEREAS, ASSIGNOR is the owner of United States Patent No. 5,466,589 entitled "Coated Substrates Employing Oriented Layers of Mutant Heme Proteins and Methods of Making and Using Same," issued November 14, 1995; and

WHEREAS, ASSIGNEE is desirous of acquiring ASSIGNOR's interest in, to and under the said Patent.

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN,

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, ASSIGNOR's interest in and to any and all improvements which are disclosed in the invention entitled " Coated Substrates Employing Oriented Layers of Mutant Heme Proteins and Methods of Making and Using Same " and which is found in U.S. Patent No. 5,466,589, issued November 14, 1995, and, in and to any re-issue or re-examination thereof, and Assignor's interest in and to said U.S. Patent No. 5,466,589.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

In Witness Whereof, Biotechnology Research and Development Corporation has caused this Assignment of Patent Rights to be signed by its officer thereunto duly authorized as of the day first above given.

BIOTECHNOLOGY RESEARCH AND DEVELOPMENT CORPORATION

By: J. Grant Brewen  
J. Grant Brewen  
President

STATE OF ILLINOIS )  
 ) SS  
COUNTY OF PEORIA )  
 )  
UNITED STATES OF AMERICA )

On this 16th day of July, 2003, before me appeared J. Grant Brewen, to me personally known and known to be the person who executed the foregoing instrument; and who, being by me duly sworn, did say that he is President of Biotechnology Research and Development Corporation and that he is authorized to execute said instrument on behalf of said corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and unto me acknowledged said instrument to be the free act and deed of said corporation

Brian J. Meghinnes  
NOTARY PUBLIC

103-1403

