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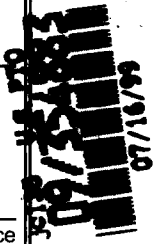
Date of Deposit July 16, 1999

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I hereby certify under 37 CFR 1.10 that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" with sufficient postage on the date indicated above and is addressed to BOX PATENT APPLICATION, Assistant Commissioner of Patents, Washington, D.C. 20231.

Sandra E. Marxen  
Printed name of person mailing correspondence

*Sandra Marxen*  
Signature of person mailing correspondence



RECORDATION FORM COVER SHEET  
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Commissioner of Patents & Trademarks: Please record the attached document.

|                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Names of all conveying parties:</p> <p>Richard F Selden<br/>Douglas Treco<br/>Michael W. Heartlein</p> <p>Additional names attached: NO</p>                                                                                                                                                      | <p>2. Names and addresses of all receiving parties:</p> <p>Transkaryotic Therapies, Inc.<br/>195 Albany Street<br/>Cambridge, MA 02139</p> <p>Additional names/addresses attached: NO</p>                                                                                                                                                                                                                                                                    |
| <p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment<br/><input type="checkbox"/> Merger<br/><input type="checkbox"/> Security Agreement<br/><input type="checkbox"/> Change of Name<br/><input type="checkbox"/> Other: _____</p> <p>Execution Date: October 4, 1996</p> | <p>09354883</p>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>4. Application numbers or patent numbers:</p> <p>A. Patent Application Numbers:</p> <p>Patent Application filed herewith; serial number not yet known</p>                                                                                                                                           | <p>B. Patent Numbers:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Paul T. Clark, Registration No. 30,162<br/>Clark &amp; Elbing LLP<br/>176 Federal Street<br/>Boston, MA 02110</p>                                                                                  | <p>6. Total number of applications/patents involved: 1</p> <p>7. Total fee (37 CFR 3.41):<br/><input checked="" type="checkbox"/> Fee enclosed<br/><input type="checkbox"/> Authorized to charge deposit account</p> <p>8. Deposit account number: 03-2095. If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to Deposit Account No. 03-2095.</p> |

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9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.

*Susan M. Michaud*  
Name of person signing

*Susan M. Michaud*  
Signature

*July 16, 1999*  
Date

Reg. No. 42,885

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## Assignment

WHEREAS, we, Richard F Selden, Douglas Treco and Michael W. Heartlein have invented a certain improvement in IN VIVO PROTEIN PRODUCTION AND DELIVERY SYSTEM FOR GENE THERAPY described in an application for Letters Patent of the United States, Serial No. 07/787,840, filed November 5, 1991.

WHEREAS, Transkaryotic Therapies, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 195 Albany Street, Cambridge, MA 02139 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of the said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the said invention as described in said application, together with the entire right, title and interest in and to the said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts

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which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives;

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor: Richard F Selden  
Richard F Selden

State/Commonwealth  
of Massachusetts  
County of Norfolk

Then personally appeared before me the above-named Richard F Selden and acknowledged that he executed the foregoing instrument as his free act and deed this second day of January, 1992

Jean M. Ventola Notary Public  
Jean M. Ventola (print name)  
My Commission expires 12/14/96

(SEAL)

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Inventor: *Douglas Treco*  
Douglas Treco

State/Commonwealth  
of Massachusetts  
County of Worcester

Then personally appeared before me the above-named  
Douglas Treco and acknowledged that he  
executed the foregoing instrument as his free act and  
deed this second day of January, 1992.

(SEAL)

*Jean M. Ventola* Notary Public  
JEAN M. VENTOLA (print name)  
My Commission expires 12 14 1996

Inventor: *Michael W. Heartlein*  
Michael W. Heartlein

State/Commonwealth  
of Massachusetts  
County of Worcester

Then personally appeared before me the above-named  
Michael W. Heartlein and acknowledged that he  
executed the foregoing instrument as his free act and  
deed this second day of January, 1992.

(SEAL)

*Jean M. Ventola* Notary Public  
JEAN M. VENTOLA (print name)  
My Commission expires 12 14 1996

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