



101479737

To the Honorable Commissioner of Patents \_\_\_\_\_ these records and attached original documents or copy thereof.

1. Name of conveying party(ies):  
 James Joseph BECK and  
 Charles Jason BARNETT *8-10-00*

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

2. Name and address of receiving party(ies)  
 Name: Novartis AG  
 Internal Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Street Address: Schwarzwaldallee 215  
 \_\_\_\_\_  
 City: Basel State: Switzerland ZIP: 4058

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

JCE873 U.S. PTO  
09/635747  
08/10/00

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: August 10, 2000

4. Application number(s) or patent number(s): *09/635747*  
 If this document is being filed together with a new application, the execution date of the application is: August 10, 2000

A. Patent Application No.(s) \_\_\_\_\_ B. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: J. Timothy Meigs  
 Internal Address: Novartis Agribusiness Biotechnology Research, Inc  
Patent and Trademark Dept.  
 Street Address: 3054 Cornwallis Road  
 City: Research Triangle Park State: NC ZIP: 27709

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40  
 Enclosed  
 Authorized to be charged to deposit account and any other additional fees required.

8. Deposit account number:  
19-0134 (in the name of Novartis Corporation)  
 (Attach duplicate copy of this page if paying by deposit account)

10/04/2000 NTHAI1 00000246 190134 09635747

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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.*

J. Timothy Meigs *J. Timothy Meigs* August 10, 2000  
 Name of Person Signing Signature Date  
 Reg. No. 38,241

Certificate of mailing on reverse side

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, D.C. 20231

ASSIGNMENT

We,

James Joseph Beck                      residing at                      114 Ripley Court  
Cary, North Carolina 27513


Jason Barnett                      residing at                      26 Audley Lane  
*Charles* Chapel Hill, North Carolina 27514,

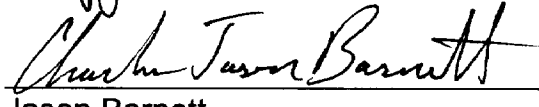
for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, do hereby sell and assign to **Novartis AG**, a company organized under the laws of the Swiss Confederation, having a place of business at Schwarzwaldallee 215, Basel, Switzerland 4058, its successors, assigns and legal representatives, all our right, title and interest, which includes the right to and full benefit of such priorities as may now or hereafter be granted to us by local laws or by treaty, including any international convention for the protection of industrial property, in and for the United States and its territories and possessions in and to the invention entitled:

**PCR-BASED DETECTION AND QUANTIFICATION OF TAPESIA YALLUNDAE AND TAPESIA ACUFORMIS**

invented by us and described in the application for United States Letters Patent executed on even date herewith including (1) said application for United States Letters Patent and all continuations and divisions thereof (including further continuations and divisions such as, but not limited to, continuations of continuations and divisions of continuations), (2) all United States Letters Patent which may be issued and/or granted on all such applications, (3) all applications for reissues and extensions of and reexamination certificates for all such United States Letters Patent and (4) all reissues and extensions and reexamination certificates issued for all such United States Letters Patent, the said interest being the entire ownership of said invention and all of said applications, United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates to be held and enjoyed by the said Novartis AG and its successors and assigns to the full end of the terms to which said United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates may be granted and/or issued, as fully and entirely as the same would have been held and enjoyed by us if this sale, assignment and transfer had not been made;

And we hereby agree to sign and/or execute any further documents and/or instruments which may be necessary, lawful and proper in and/or for the filing and/or prosecution of said applications for United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates and/or the granting and/or issuance thereof and/or to otherwise secure title to said invention and all of said applications, United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates in said assignee.

Signed this 10 day of ~~August~~<sup>2000</sup>, 199~~9~~ by   
James Joseph Beck

Signed this 10 day of August, ~~1999~~<sup>2000</sup> by   
Jason Barnett  
Charles