

# RECORDATION FORM COVER SHEET PATENTS ONLY

Docket No.: 2733.2017-001

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

1 Name of conveying party(ies)  
 NANDA SINHA  
 WILLIAM EDWARD ZEDALIS  
 GREGORY KEITH MIRANDA

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

2. Name and address of receiving party(ies)  
 Name: AVECIA BIOTECHNOLOGY, INC.  
 Internal Address: \_\_\_\_\_

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

Execution Date: APRIL 27, 2004

Street Address: 155 FORTUNE BOULEVARD  
 City: MILFORD State: MA ZIP: 01757

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

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: \_\_\_\_\_

A Patent Application No (s)  
10/482,441

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

Additional numbers attached?  Yes  No

6. Total number of applications and patents involved:  1

7. Total Fee (37 C.F.R. 3.41)..... \$ 40

Enclosed  
 Authorized to charge any deficiencies or credit any overpayment to deposit account number 08-0380  
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5 Name and address of party to whom correspondence concerning document should be mailed.  
 Name: Doreen M. Hogle, Esq.  
 Internal Address: \_\_\_\_\_  
Hamilton, Brook, Smith & Reynolds, P.C.  
 Street Address: 530 Virginia Road, P.O. Box 9133  
 City Concord State MA ZIP: 01742-9133

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8 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.*

Doreen M. Hogle  
 Name of Person Signing

Doreen M. Hogle  
 Signature

June 17, 2007  
 Date

Total number of pages including cover sheet, attachments, and document:  4

CH \$40.00 080380 10482441

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JointASSIGNMENT

WHEREAS, we, **Nanda Sinha, William Edward Zedalis, and Gregory Keith Miranda**, have invented a certain improvement in **Activators for Oligonucleotide Synthesis** described in an application for Patent,

- the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. [ ], filed [ ];
- the specification of which is the United States National Stage of International Application No. **PCT Appl'n No. PCT/GB02/03029**, filed on **1 July 2002** and assigned United States Application No. **10/482,441**;
- which was patented under United States Patent No. [ ].

WHEREAS, **Avecia Biotechnology, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **155 Fortune Boulevard, Milford, Massachusetts 01757, USA** 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 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 said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; 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's 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 which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its

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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 any future applications including 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 each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor *Nanda Sinha* Date *4/27/2004*  
Nanda Sinha

Address 32 Pine Pasture Run  
Boxboro, Massachusetts 01710

Witness *Paula Kochman*  
Address Avenue Bickelovitz 155 Fortune Blvd.  
Milford MA 01757

Witness *Robert Shouk*  
Address 25 Highland Road  
Boxboro, MA 01503

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Inventor William Edward Zedalis Date 4/27/04  
William Edward Zedalis

Address 1248 Ashby State Rd.  
Fitchburg MA 01420

Witness Rajiv Krishnamoorti  
Address Arena Biotechnology, 155 Fortune Blvd  
Milford, MA 01757

Witness Peter Shewchuk (SAIED SHAEKH)  
Address 25 UPLAND ROAD,  
BOSTON MA 01503

Inventor Gregory Keith Miranda Date 4/27/04  
Gregory Keith Miranda

Address 50 Worcester Rd  
Princeton MA 01541

Witness Rajiv Krishnamoorti  
Address Arena Biotechnology, 155 Fortune Blvd  
Milford, MA 01757

Witness Ann C. Gordin  
Address 77 Sterling Pl, Apt 3L  
West Boylston MA 01583