

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Shawn DeFrees	04/21/2006
David A. Zopf	04/21/2006
Caryn Bowe	04/17/2006

RECEIVING PARTY DATA

Name:	Neose Technologies, Inc.
Street Address:	102 Witmer Road
City:	Horsham
State/Country:	PENNSYLVANIA
Postal Code:	19044

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11404266

CORRESPONDENCE DATA

Fax Number: (650)843-4001

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (415) 442-1749

Email: kdegliantoni@morganlewis.com

Correspondent Name: /Todd Esker/

Address Line 1: Two Palo Alto Square

Address Line 2: 3000 El Camino Real, Suite 700

Address Line 4: Palo Alto, CALIFORNIA 94306

ATTORNEY DOCKET NUMBER:

040853-01-5552-US

NAME OF SUBMITTER:

Todd Esker

Total Attachments: 4

source=N5552US#page1.tif


PATENT

REEL: 017572 FRAME: 0404

500100650

CH \$40.00 11404266

source=N5552US#page2.tif
source=N5552US#page3.tif
source=N5552US#page4.tif

Form PTO-1595 (Rev. 10-02) OMB No. 0651-0027 (exp. 5/31/2002)		Recordation Form Cover Sheet PATENTS ONLY		U.S. Department of Commerce U.S. Patent and Trademark Office	
Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼					
To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof					
1. Name of conveying party(ies): Shawn DeFrees David A. Zopf Caryn Bowe Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No.			2. Name and address of receiving party(ies) Name: Neose Technologies, Inc. Street Address: 102 Witmer Road City: Horsham State: PA ZIP: 19044 Additional name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:			Execution Dates: 04/21/06, 04/21/06, 04/17/06, respectively		
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): 11/404,266 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Todd Esker Morgan, Lewis & Bockius LLP Two Palo Alto Square 3000 El Camino Real, Ste. 700 Palo Alto, CA 94306 Tel. (415) 442-1000 Direct Dial: (415) 442-1304 eFAX: (650) 843-4001 e-mail: tesker@morganlewis.com			6. Total number of applications and patents involved 1 7. Total fee (37 CFR 3.41): -----\$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 50-0310 (Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE					
9. Statement and signature. <i>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.</i> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <u>Todd Esker</u> Name of Person Signing Atty. Reg. No. 46,690 </div> <div style="text-align: center;">  Signature </div> <div style="text-align: center;"> <u>May 4, 2006</u> Date </div> </div>					
Total number of pages including cover sheet, attachments and documents: 4					

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services
 Director of the U.S. Patent and Trademark Office
 P.O. Box 1450
 Alexandria, VA 22313-1450

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Shawn DeFrees of 126 Filly Drive, North Wales, PA 19454; David A. Zopf of 560 Beechtree Lane, Wayne, PA 19084, and Caryn Bowe of 276 Cherry Lane, Doylestown, PA, 18901, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified patent application:

Title of Invention:	REMODELING AND GLYCOCONJUGATION OF PEPTIDES
Filing Date:	April 12, 2006
Application No.:	11/404,266; and

WHEREAS, Neose Technologies, Inc., located at 102 Witmer Road, Horsham, PA 19044, hereinafter referred to as "ASSIGNEE," hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on any patent application claiming priority from the same;

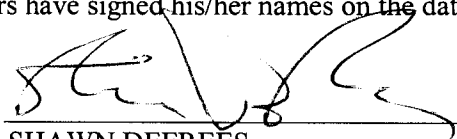
For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that Assignors will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Morgan, Lewis & Bockius LLP, One Market, Spear Street Tower, San Francisco, CA 94105, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed his/her names on the dates indicated.

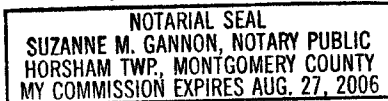
Dated: 4/21/2006


SHAWN DEFREES

STATE OF PENNSYLVANIA)
) ss.
COUNTY OF MONTGOMERY)

On 4/21/06, before me, Suzanne Gannon personally appeared Shawn DeFrees, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

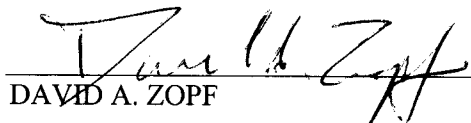
WITNESS my hand and official seal.




NOTARY PUBLIC

My Commission Expires: _____

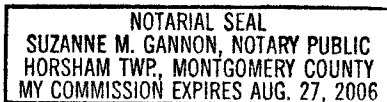
Dated: 21 Apr 2006


DAVID A. ZOPF

STATE OF PENNSYLVANIA)
) ss.
COUNTY OF Montgomery)

On 4/21/06, before me, Suzanne Gannon personally appeared David A. Zopf, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.




NOTARY PUBLIC

My Commission Expires: _____

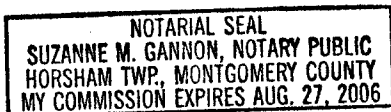
Dated: 4/17/2006

Caryn Jay Bowe
CARYN BOWE

STATE OF PENNSYLVANIA)
COUNTY OF Montgomery) ss.

On 4/17/06, before me, Suzanne Gannon personally appeared Caryn Bowe, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Suzanne Gannon
NOTARY PUBLIC

My Commission Expires: _____

1-SF/7361317.1