

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT														
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Shawn DeFrees</td> <td>03/29/2007</td> </tr> <tr> <td>David A. Zopf</td> <td>03/21/2007</td> </tr> <tr> <td>Robert J. Bayer</td> <td>03/16/2007</td> </tr> <tr> <td>David James Hakes</td> <td>03/21/2007</td> </tr> <tr> <td>Caryn Bowe</td> <td>03/21/2007</td> </tr> <tr> <td>Xi Chen</td> <td>03/21/2007</td> </tr> </tbody> </table>		Name	Execution Date	Shawn DeFrees	03/29/2007	David A. Zopf	03/21/2007	Robert J. Bayer	03/16/2007	David James Hakes	03/21/2007	Caryn Bowe	03/21/2007	Xi Chen	03/21/2007
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Robert J. Bayer	03/16/2007														
David James Hakes	03/21/2007														
Caryn Bowe	03/21/2007														
Xi Chen	03/21/2007														
<b>RECEIVING PARTY DATA</b>															
<b>Name:</b>	Neose Technologies, Inc.														
<b>Street Address:</b>	102 Rock Road														
<b>City:</b>	Horsham														
<b>State/Country:</b>	PENNSYLVANIA														
<b>Postal Code:</b>	19044														
<b>PROPERTY NUMBERS Total: 1</b>															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11644014</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11644014										
Property Type	Number														
Application Number:	11644014														
<b>CORRESPONDENCE DATA</b>															
<b>Fax Number:</b>	(650)843-4001														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
<b>Phone:</b>	(415) 442-1749														
<b>Email:</b>	kdegliantoni@morganlewis.com														
<b>Correspondent Name:</b>	Edward J. Baba														
<b>Address Line 1:</b>	MLB, LLP, Two Palo Alto Square														
<b>Address Line 2:</b>	3000 El Camino Real, Suite 700														
<b>Address Line 4:</b>	Palo Alto, CALIFORNIA 94306														
<b>ATTORNEY DOCKET NUMBER:</b>	40853-01-5559-US														

**CH \$40.00 11644014**

NAME OF SUBMITTER:

Edward J. Baba

**Total Attachments: 7**

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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  
 Robert J. Bayer  
 David James Hakes  
 Caryn Bowe  
 Xi Chen  
 Additional name(s) of conveying party(ies) attached?  Yes  No.

2. Name and address of receiving party(ies)  
 Name: Neose Technologies, Inc.  
 Street Address: 102 Rock Road  
 City: Horsham State: PA ZIP: 19044  
 Additional name(s) and address(es) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other:  
 Execution Dates: 03/29/2007, 03/21/2007, 03/16/2007,  
 03/21/2007, 03/21/2007 and 03/21/2007, 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): 11/644,014  
 B. Patent No(s):  
 Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: Edward J. Baba  
 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) 442-1210  
 eFAX: (650) 843-4001  
 e-mail: ebaba@morganlewis.com

6. Total number of applications and patents involved 1  
 7. Total fee (37 CFR 3.41): \_\_\_\_\_ \$40.00  
 Enclosed  
 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.  
*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.*  
 Edward J. Baba \_\_\_\_\_ April 10, 2007 \_\_\_\_\_  
 Name of Person Signing Signature Date  
 Atty. Reg. No. 52,581

Total number of pages including cover sheet, attachments and documents: 7  
 Mail documents to be recorded with required cover sheet information to:

**ASSIGNMENT OF PATENT APPLICATION**

JOINT

WHEREAS, Shawn DeFrees, 126 Filly Drive, North Wales, PA 19454, David A. Zopf, 560 Beechtree Lane, Wayne, PA 19087, Robert J. Bayer, 6105 Dirac Street, San Diego, California 92122, David James Hakes, 14 Fern Avenue, Willow Grove, PA 19090, Caryn Bowe, 310 Maple Avenue, Doylestown, Pennsylvania 18901, and Xi Chen, 107 Whitney Place, Lansdale, PA 19446 hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified patent application:

Title of Invention:	FACTOR VIII: REMODELING AND GLYCOCONJUGATION OF FACTOR VIII
Filing Date:	December 21, 2006
Application No.:	11/644,014; and

WHEREAS, Neose Technologies, Inc., located at 102 Rock Road, Horsham, PA 19044, 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.

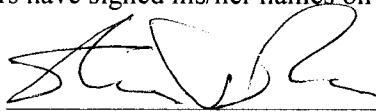
Assignors further agree that Assignors will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further 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.

Assignment  
Attorney Docket No.: 040853-01-5559-US  
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IN TESTIMONY WHEREOF, Assignors have signed his/her names on the dates indicated.

Dated: 3/29/07

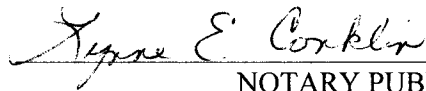
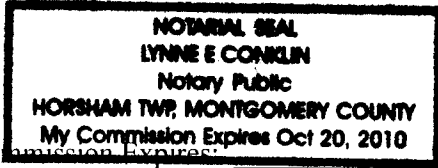


SHAWN DEFREES

STATE OF PENNSYLVANIA )  
 ) ss.  
COUNTY OF MONTGOMERY )

On 3/29/07, before me, Lynne E. Conklin 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: 31 March 2007

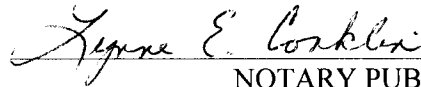
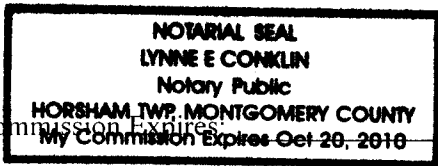


DAVID A. ZOPF

STATE OF PENNSYLVANIA )  
 ) ss.  
COUNTY OF Montgomery )

On 3/21/07, before me, Lynne E. Conklin 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/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:

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Attorney Docket No.: 040853-01-5559-US  
Page 3

Dated: March 16, 2007

Robert J. Bayer  
ROBERT J. BAYER

STATE OF CALIFORNIA            )  
  ) ss.  
COUNTY OF                            )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared Robert J. Bayer, 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: \_\_\_\_\_

\_\_\_\_\_  
DAVID JAMES HAKES

STATE OF PENNSYLVANIA        )  
  ) ss.  
COUNTY OF                            )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared David James Hakes, 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: \_\_\_\_\_

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Attorney Docket No.: 040853-01-5559-US  
Page 3

Dated: \_\_\_\_\_

\_\_\_\_\_  
ROBERT J. BAYER

STATE OF CALIFORNIA            )  
  ) ss.  
COUNTY OF                            )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared Robert J. Bayer, 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: \_\_\_\_\_

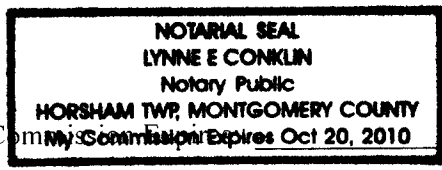
Dated: March 21, 2007

David James Hakes  
\_\_\_\_\_  
DAVID JAMES HAKES

STATE OF PENNSYLVANIA        )  
  ) ss.  
COUNTY OF                            )

On 3/21/07, before me, DAVID J. HAKES personally appeared David James Hakes, 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.



My Commission Expires

Lynne E Conklin  
\_\_\_\_\_  
NOTARY PUBLIC

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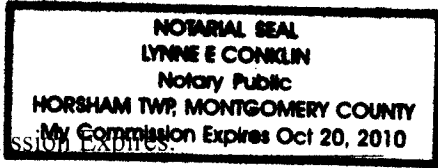
Dated: 3/21/2007

Caryn Jay Bowe  
CARYN BOWE

STATE OF PENNSYLVANIA )  
 ) ss.  
COUNTY OF )

On 3/21/07, before me, CARYN BOWE 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.



Lynne E. Conklin  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
XI CHEN

STATE OF )  
 ) ss.  
COUNTY OF )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared Xi Chen, 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: \_\_\_\_\_



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Attorney Docket No.: 040853-01-5559-US  
Page 4

Dated: \_\_\_\_\_

\_\_\_\_\_  
CARYN BOWE

STATE OF PENNSYLVANIA     )  
  ) ss.  
COUNTY OF                             )

On \_\_\_\_\_, before me, \_\_\_\_\_ 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.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

Dated: 03/15/2007

Chen Xi  
\_\_\_\_\_  
XI CHEN

STATE OF                             )  
  ) ss.  
COUNTY OF                             )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared Xi Chen, 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: \_\_\_\_\_