FORM PTO-1595 (Modified)

# RECORDATION FORM COVER SHEET PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Attorney Docket No.: 040853-01-5050

To the Assistant Commissioner of Patents and Trademarks: Please re-	cord the attached original documents or copy thereof.
1. Name of conveying party(ies):  Shawn DeFrees David Zopf Robert Bayer Caryn Bowe David Hakes Xi Chen  3. Nature of conveyance:  [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other:  Execution Date: April 1 and 6, 2004	Name and address of receiving party(ies):      Neose Technologies, Inc.     102 Witmer Road     Horsham, Pennsylvania 19044
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): 10/492,261, filed October 9, 2002.	B. Patent No.(s):
Additional numb	ers attached?[ ] Yes [ ] No
<ol> <li>Name and address of party to whom correspondence document should be mailed:</li> <li>KATHRYN DOYLE, Ph.D., J.D.         MORGAN, LEWIS &amp; BOCKIUS, L.L.P.         1701 Market Street         Philadelphia, PA 19103         Telephone: (215) 963-5000         Direct Dial: (215) 963-4723         Facsimile: (215) 963-5299         E-Mail: kdoyle@morganlewis.com</li> </ol>	<ul> <li>6. Total number of applications and patents involved: [1]</li> <li>7. Total fee (37 C.F.R. 3.41) Cal. 1 x \$40.00 =\$40.00  [1] Check enclosed [X] Authorized to be charged to deposit account</li> <li>8. Deposit account number: 50-0310  (Billing No.: 040853-01-5050)</li> </ul>
DO NO	Γ USE THIS SPACE
9. Statement and signature To the best of my knowledge and belief, the foregoing information is  Darryl Pratcher Name of Person Signing Signature	June 22, 2004  Date  Total number of pages including cover sheet, attachments and document: [11]
OMB No. 0651-0011 (exp. 4/94)	

Attorney Docket No. 40853-01-5050 (NEQ00180)

#### ASSIGNMENT

WHEREAS, we, Shawn DeFrees, David Zopf, Robert Bayer, Caryn Bowe, David Hakes, respectively citizens of the United States; and Xi Chen, a citizen of the People's Republic of China, with respective post office addresses of 126 Filly Drive, North Wales, PA 19454; 560 W. Beechtree Lane, Wayne, PA 19087; 6105 Dirac Street, San Diego, CA 92122; 276 Cherry Lane, Doylestown, PA 18901; 14 Fern Avenue, Willow Grove, PA 19090 and 107 Whitney Place, Lansdale, PA 19446, hereinafter generally referred to as "ASSIGNORS," have invented a certain new and useful

## REMODELING AND GLYCOCONJUGATION OF PEPTIDES

for which we have executed a United States patent application, Application No. 10/492,261, filed October 9, 2002, and

ASSIGNORS authorize ASSIGNEE or ASSIGNEE's representative to insert the Application Number and Filing date of this application if they are unknown at the time of execution of this Assignment.

WHEREAS, Neose Tehnologies, Inc., a corporation having a place of business at 102 Witmer Road, Horsham, PA 19044, hereinafter generally referred to as "ASSIGNEE", is desirous of acquiring said invention and said patent application.

NOW, THEREFORE, in consideration of the sum of One Dollar and other good and valuable executed consideration, the full receipt and sufficiency of all of which are hereby acknowledged and intending to be legally bound hereby, we, the undersigned ASSIGNORS, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named ASSIGNEE, the whole and entire right, title and interest

in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-provisionals, divisions and continuations thereof, along with all rights of priority created by said patent application under any treaty relating thereto; and

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in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and benefit, and for ASSIGNEE's legal representatives and assigns to the full end of the term or terms for which said patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNORS had this assignment and sale not been made; and for the aforesaid consideration ASSIGNORS hereby covenant, agree and undertake to execute, whenever requested by the above-named ASSIGNEE, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNORS.

4/1/2004 Com (Date)	(Seal)
Shawn DeFrees	
(Date)	(Seal)
David Zopi	
(Date) Robert Bayer	(Seal)
Robert Bayer	
(Date) 4/1/2004 (aun Jan Row)	(Seal)
Caryn Bowe	
(Date) 4/1/2007 Dwill M. Lu	(Seal)
David Hakes	
(Date)	(Seal)
Xi Chen	

STATE OF <u>fearsylvania</u> :
COUNTY OF Matarnens: ss.
Before me, a notary public in and for the State and County aforesaid, on thisday of, 2004, personally appeared Shawn DeFrees, who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.  Notary Public  My Commission Expires:  My Commission Expires:  My Commission Expires:
STATE OF <u>finalification</u> :  SS.  COUNTY OF <u>Management</u> :  Before we a material big in and for the State and County of orosaid on this / day
Before me, a notary public in and for the State and County aforesaid, on thisday of, 2004, personally appeared <b>David Zopf</b> , who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his free deed and act, signed, sealed and delivered by him for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.
Notary Public
My Commission Expires:  My Commission Expires:  NOTARIAL SEAL SUZANNE M, GANNON, NOTARY PUBLIC HORSHAM TWR. MONTGOMERY COUNTY MY COMMISSION EXPIRES AUG. 27, 2008

STATE OF fansywaria:	
COUNTY OF Madgining: ss.	
Before me, a notary public in and for the State and County aforest of	eing to me personally resence and have been by see deed and act, signed, to be legally bound
Notary Public	NOTARIAL SEAL SUZANNE M. GANNON, NOTARY PUBLIC HORSHAM TWP. MONTGOMERY COUNTY HORSHAM TWP. MONTGOMERY COUNTY
My Commission Expires:	MY COMMISSION EXPINES ROOF CA
STATE OF JERRSUSWANIA:	
COUNTY OF Mary : ss.	
Before me, a notary public in and for the State and County afore of, 2004, personally appeared Caryn Bowe, who being known, and who having first executed the foregoing instrument in my prome first duly sworn, did acknowledge the foregoing instrument as his fresealed and delivered by him for the purpose therein stated and intending thereby and intending that said instrument be recorded.	ng to me personally resence and have been by ee deed and act, signed, to be legally bound
Notary Public	
My Commission Expires:	NOTARIAL SEAL SUZANNE M. GANNON, NOTARY PUBLIC HORSHAM TWP, MONTGOMERY COUNTY MY COMMISSION EXPIRES AUG, 27, 2006

STATE OF Jansifivaxia	_:		
COUNTY OF Martavners	: ss. _:		
Before me, a notary public in and fo of, 2004, personally app known and who having first executed the forme first duly sworn, did acknowledge the forsealed and delivered by him for the purpose thereby and intending that said instrument by	eared loregoin oregoin therei	David Hakes, who being instrument in my prong instrument as his fre n stated and intending	ng to me personally esence and have been by e deed and act, signed,
		Notary/Public	NOTARIAL SEAL
	Му	Commission Expires:	SUZANNE M. GANNON, NOTARY PUBLIC HORSHAM TWP. MONTGOMERY COUNTY MY COMMISSION EXPIRES AUG. 27, 2006
STATE OF	_:		
COUNTY OF	; ss. :		
Before me, a notary public in and for of, 2004, personally app and who having first executed the foregoing first duly sworn, did acknowledge the foreg sealed and delivered by him for the purpose thereby and intending that said instrument by	eared instru g instru going in therei	Xi Chen, who being to iment in my presence a nstrument as his free de in stated and intending	me personally known, and have been by me eed and act, signed,
		Notary Public	<u></u>
	Му	Commission Expires:	

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Attorney Docket No. 40853-01-5050 (NEO00180)

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in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-provisionals, divisions and continuations thereof, along with all rights of priority created by said patent application under any treaty relating thereto; and

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(Date)		(Seal)
(200)	Shawn DeFrees	
(Date)		(Seal)
(30.0)	David Zopf	
(Date)		(Seal)
	Robert Bayer	
(Date)		(Seal)
(Date)		(Seal)
` /	David Hakes	
(Date) 04/06 (200	04 Chen Xi	(Seal)
· · · · · · · · · · · · · · · · · · ·	Xi Chen	

STATE OF	::
COUNTY OF	: \$\$- :
of, 2004, personal known, and who having first execute me first duly sworn, did acknowledge	and for the State and County aforesaid, on thisday lly appeared <b>Shawn DeFrees</b> , who being to me personally d the foregoing instrument in my presence and have been by the foregoing instrument as his free deed and act, signed, burpose therein stated and intending to be legally bound ament be recorded.
	Notary Public
	My Commission Expires:
STATE OF	: ss.
of, 2004, personal known, and who having first execute me first duly sworn, did acknowledg	and for the State and County aforesaid, on thisday lly appeared <b>David Zopf</b> , who being to me personally ed the foregoing instrument in my presence and have been by the the foregoing instrument as his free deed and act, signed, ourpose therein stated and intending to be legally bound ament be recorded.
	Notary Public
	My Commission Expires:

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STATE OF	;
COUNTY OF	: ss. :
of, 2004, persona known, and who having first execute me first duly sworn, did acknowledge	n and for the State and County aforesaid, on thisday ally appeared <b>Robert Bayer</b> , who being to me personally ed the foregoing instrument in my presence and have been by ge the foregoing instrument as his free deed and act, signed, purpose therein stated and intending to be legally bound ument be recorded.
·	Notary Public
	My Commission Expires:
STATE OF	: SS.
of, 2004, person known, and who having first execut me first duly sworn, did acknowled	n and for the State and County aforesaid, on thisday ally appeared <b>Caryn Bowe</b> , who being to me personally ted the foregoing instrument in my presence and have been by ge the foregoing instrument as his free deed and act, signed, purpose therein stated and intending to be legally bound nument be recorded.
	Notary Public
	My Commission Expires:

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STATE OF	
COUNTY OF	: ss. ;
of, 2004, personally known, and who having first executed the me first duly sworn, did acknowledge the	d for the State and County aforesaid, on thisday appeared <b>David Hakes</b> , who being to me personally me foregoing instrument in my presence and have been by the foregoing instrument as his free deed and act, signed, therein stated and intending to be legally bound ent be recorded.
_	Notary Public
•	My Commission Expires:
STATE OF CALIFORNIA COUNTY OF YOLO	; ; ;
of, 2004, personally and who having first executed the foreg first duly sworn, did acknowledge the foregraph of the first duly sworn, did acknowledge the foregraph of the first duly sworn, did acknowledge the foregraph of the first duly sworn, did acknowledge the foregraph of the first duly sworn, did acknowledge the foregraph of the first duly sworn, did acknowledge the foregraph of the first duly sworn, did acknowledge the foregraph of the first duly sworn, did acknowledge the first duly sworn duly swor	d for the State and County aforesaid, on this 6th day appeared Xi Chen, who being to me personally known, oing instrument in my presence and have been by me pregoing instrument as his free deed and act, signed, pose therein stated and intending to be legally bound ent be recorded.  Notary Public  My Commission Expires: 12/21/2007

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**RECORDED: 06/22/2004** 

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