

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Neose Technologies, Inc.	01/27/2009
RECEIVING PARTY DATA	
Name:	Novo Nordisk A/S
Street Address:	Novo Alle
City:	2880 Bagsvaerd
State/Country:	DENMARK
PROPERTY NUMBERS Total: 6	
Property Type	Number
Application Number:	11597588
Application Number:	11909599
Application Number:	12092125
Application Number:	12092128
Application Number:	12297488
Application Number:	12162952
CORRESPONDENCE DATA	
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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ATTORNEY DOCKET NUMBER:	101961-5000 TOWNSEND

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**PATENT
 REEL: 022699 FRAME: 0109**

NAME OF SUBMITTER:

Ada O. Wong

Total Attachments: 3

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ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

THIS ASSIGNMENT OF PATENTS AND PATENT APPLICATION ("Assignment") is made as of 1/27/09 from NEOSE TECHNOLOGIES INC., a Delaware corporation with its address at 102 Rock Road, Horsham, PA 19044 (the "ASSIGNOR"), to NOVO NORDISK A/S, a limited liability company organized under the laws of Denmark with its address at Novo Allé, 2880 Bagsvaerd, Denmark (the "ASSIGNEE").

WHEREAS (a) The ASSIGNOR is the sole and exclusive owner of all right, title and interest in and to the patents and patent application identified in Schedule A attached hereto, and in and to the inventions that form the subject matter of such patent and patent applications (the "Patents"); and registered owner of the following patents or patent applications ("the Patents"); and

WHEREAS, pursuant to an Asset Purchase Agreement made as of 1/27/09 the ASSIGNOR has sold, assigned, transferred, delivered and contributed all rights to the Patents to the ASSIGNEE and whereas the Assignee has acquire, accepted and received all rights to the Patents from the Assignor.

NOW THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the inventions and applications, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States, and to claim the priority from the applications 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 Assignor 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.

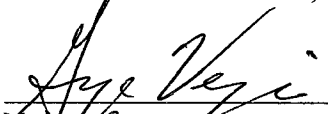
SAID ASSIGNOR hereby covenants that Assignor has full right to convey the entire right, title and interest herein sold, assigned, transferred and set over.

AND SAID ASSIGNOR hereby further covenants and agrees that Assignor will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be any facts known to them respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto shall hereafter be desired by the ASSIGNEE, its successors, legal representatives or assigns, Assignor will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers.

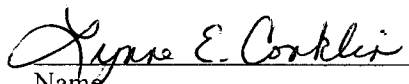
IN WITNESS WHEREOF, NEOSE TECHNOLOGIES, INC, has caused these presents to be executed by its proper Officer on this 27th day of JANUARY, 2009.

NEOSE TECHNOLOGIES, INC.

By:


Name: George J. Vergis, Ph.D.
Title: PRESIDENT + Chief Executive Officer

Witnessed by:

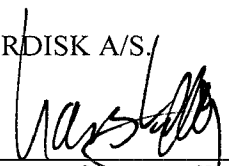

Name

JANUARY 27, 2009
Date



IN WITNESS WHEREOF, NOVO NORDISK A/S, has caused these presents to be executed by its proper Officer on this ____ day of _____, 2009.

NOVO NORDISK A/S.

By:


Name: Lars Kellberg
Title: Corporate Vice President
Corporate Patents
Novo Nordisk A/S

Witnessed by:



Name
Patent Attorney
Novo Nordisk A/S

18-02-2009
Date

61688677 v1

Schedule A

No.	Title	Inventor(s)	Country	Filed	Application No.	Issued Date	Patent No.
1.	Expression Vectors	Schultz, Jody, Hermanson, Gary	US	11/71/1997	08/965,850	9/12/2000	6,117,651
2.	Practical in vitro Sialylation of Recombinant Glycoproteins	Paulson, James C., Bayer, Robert J., Sjoberg, Eric R.	US	1/15/1998	09/007,741	6/4/2002	6,399,366
3.	Practical in vitro Sialylation of Recombinant Glycoproteins	Paulson, James C., Bayer, Robert J., Sjoberg, Eric R.	US	2/21/2002	10/081,455	5/22/2007	7,220,555
4.	Methods of Refolding Mammalian Glycosyltransferases (Refolding GST-ST3-GAL III)	Saribas, Sami, Hakes, David James Willet Jr., Walter, Scott Johnson, Karl F., Bezila, Daniel J., DeFrees, Shawn A.	US	2/4/2005	10/587,769		
5.	Vectors for Recombinant Protein Expression in E. Coli	Johnson, Karl F., Bezila, Daniel J., Ngo, Winnie, Hakes, David J.	US	1/6/2005	10/585,440		
6.	Truncated ST6GalNAc Polypeptides and Nucleic Acids	Hakes, David J., Wei, Gelu, Li, Saribas, Sami Sjoberg, Eric, Clausen, Henrik, Bennett, Eric P. Mobasser, Aliakbar	US	3/11/2008	11/597,258		
7.	Truncated GalNAcT2 Polypeptides and Nucleic Acids	Johnson, Karl F., Chen, Xi Taudte, Susann, Saribas, Sami	US	11/20/2006	11/597,588		
8.	Novel ST6GalNAc and ST3GalI Constructs for Improved Enzymatic Activity and Expression	DeFrees, Shawn A.	US	6/2/2008	12/093,013		
9.	Novel ST6GalNAc and ST3GalI Constructs for Improved Enzymatic Activity and Expression	DeFrees, Shawn A.	PCT	11/8/2006	PCT/US2006/043657		
10.	Expression of Soluble Active Eukaryotic Glycosyltransferases in Prokaryotic Organisms	Schwartz, Mark, Soliman, Tarik	US	3/24/2006	11/388,595		
11.	Expression of Soluble Active Eukaryotic Glycosyltransferases in Prokaryotic Organisms	Schwartz, Mark, Soliman, Tarik	US	9/24/2007	11/909,599		
12.	Expression of Soluble Therapeutic Proteins in E. Coli	Schwartz, Mark, Wu, Bingyuan Mobasser, Aliakbar, DeFrees, Shawn A., Soliman, Tarik, Johnson, Karl F.	US	4/30/2008	12/092,125		
13.	Expression of Soluble Therapeutic Proteins in E. Coli	Schwartz, Mark, Wu, Bingyuan Mobasser, Aliakbar, DeFrees, Shawn A., Soliman, Tarik Johnson, Karl F.	PCT	9/6/2006	PCT/US2006/34844		
14.	Expression of Soluble Factor VIII Peptides in E. Coli	Schwartz, Mark, Wu, Bingyuan Mobasser, Aliakbar, DeFrees, Shawn A., Soliman Tarik	US	4/30/2008	12/092,128		
15.	Expression of Soluble Factor VIII Peptides in E. Coli	Schwartz, Mark, Wu, Bingyuan Mobasser, Aliakbar, DeFrees, Shawn A., Soliman, Tarik	PCT	10/31/2006	PCT/US2006/042765		
16.	Expression of O-Glycosylated Therapeutic Proteins in Prokaryotic Microorganisms	DeFrees, Shawn A., Zopf, David A., Schwartz, Marc F., Johnson, Karl F.	US	10/17/2008	12/297,488		
17.	Expression of O-Glycosylated Therapeutic Proteins in Prokaryotic Microorganisms	DeFrees, Shawn A., Zopf, David A., Schwartz, Marc F., Johnson, Karl F.	PCT	4/19/2007	PCT/US2007/09782		
18.	Modifications of CST-II for Increased Protein Expression	Johnson, Karl F., DeFrees, Shawn A.	US	7/31/2008	12/162,952		
19.	Modifications of CST-II for Increased Protein Expression	Johnson, Karl F., DeFrees, Shawn A.	PCT	2/1/2007	PCT/US2007/02878		

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RECORDED: 05/18/2009

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