

Title (en)  
ENGINEERING INTRACELLULAR SIALYLATION PATHWAYS

Title (de)  
TECHOLOGISCHE MANIPULATION INTRAZELLULÄRER SIALIERUNGSWEGE

Title (fr)  
MISE AU POINT DE VOIES DE SIALYLATION INTRACELLULAIRES

Publication  
**EP 1399538 A2 20040324 (EN)**

Application  
**EP 00913684 A 20000301**

Priority  
• US 0005313 W 20000301  
• US 12258299 P 19990302  
• US 16962499 P 19991208

Abstract (en)  
[origin: WO0052135A2] Methods for manipulating carbohydrate processing pathways in cells of interest are provided. Methods are directed at manipulating multiple pathways involved with the sialylation reaction by using recombinant DNA technology and substrate feeding approaches to enable the production of sialylated glycoproteins in cells of interest. These carbohydrate engineering efforts encompass the implementation of new carbohydrate bioassays, the examination of a selection of insect cell lines and the use of bioinformatics to identify gene sequences for critical processing enzymes. The compositions comprise cells of interest producing sialylated glycoproteins. The methods and compositions are useful for heterologous expression of glycoproteins.

IPC 1-7  
**C12N 5/00; C12N 5/02**

IPC 8 full level  
**C12N 15/09** (2006.01); **C12N 1/15** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/02** (2006.01); **C12N 5/10** (2006.01); **C12N 9/10** (2006.01); **C12N 9/12** (2006.01); **C12N 9/24** (2006.01); **C12N 9/88** (2006.01); **C12N 9/90** (2006.01); **C12N 15/32** (2006.01); **C12P 21/00** (2006.01); **C12P 21/02** (2006.01)

CPC (source: EP)  
**C12N 9/1081** (2013.01); **C12N 9/1241** (2013.01); **C12N 9/2402** (2013.01); **C12N 9/88** (2013.01); **C12N 9/90** (2013.01); **C12P 21/005** (2013.01); **C12Y 302/01052** (2013.01); **C12N 2799/026** (2013.01)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0052135 A2 20000908; WO 0052135 A3 20040108; WO 0052135 A9 20011011**; AU 3508300 A 20000921; CA 2363297 A1 20000908; CA 2363297 C 20110809; EP 1399538 A2 20040324; EP 1399538 A4 20040324; JP 2003524395 A 20030819

DOCDB simple family (application)  
**US 0005313 W 20000301**; AU 3508300 A 20000301; CA 2363297 A 20000301; EP 00913684 A 20000301; JP 2000602747 A 20000301