

Title (en)

METHODS AND COMPOSITIONS FOR ENGINEERING OF ATTENUATED VACCINES

Title (de)

VERFAHREN UND ZUSAMMENSETZUNGEN FÜR DIE MANIPULATION ATTENUIERTE VAKZINE

Title (fr)

PROCEDES ET COMPOSITIONS POUR LA MISE AU POINT DE VACCINS ATTENUES

Publication

**EP 1196552 A2 20020417 (EN)**

Application

**EP 00944760 A 20000620**

Priority

- US 0016984 W 20000620
- US 34465599 A 19990625

Abstract (en)

[origin: WO0100234A2] This invention provides attenuated vaccines, and methods of obtaining attenuated vaccines. The vaccines of the invention include recombinant viral, bacterial, parasite, and other organisms that are evolved to exhibit increased attenuation without loss of effectiveness as a vaccine. The methods involve the creation of libraries of recombinant nucleic acids (e.g., whole or partial genomes, or particular nucleic acids) which are introduced into the vaccine viruses or other organisms, followed by screening and/or selection for those viruses or organisms that are attenuated.

IPC 1-7

**C12N 15/00**; **C12N 7/04**; **A61K 39/00**; **C12N 1/36**

IPC 8 full level

**C12N 15/09** (2006.01); **A61K 39/00** (2006.01); **A61K 39/12** (2006.01); **A61K 39/145** (2006.01); **A61K 39/155** (2006.01); **A61K 39/21** (2006.01); **A61K 39/255** (2006.01); **A61K 39/265** (2006.01); **A61K 39/29** (2006.01); **A61K 39/295** (2006.01); **A61P 31/00** (2006.01); **C12N 7/04** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP US)

**A61K 39/00** (2013.01 - EP US); **A61K 39/12** (2013.01 - EP); **A61K 39/145** (2013.01 - EP); **A61K 39/155** (2013.01 - EP); **A61K 39/21** (2013.01 - EP); **A61K 39/255** (2013.01 - EP); **A61K 39/265** (2013.01 - EP); **A61K 39/29** (2013.01 - EP); **A61P 31/00** (2018.01 - EP); **C12N 7/00** (2013.01 - EP); **A61K 2039/5254** (2013.01 - EP); **A61K 2039/53** (2013.01 - EP); **C12N 2710/16034** (2013.01 - EP); **C12N 2710/16334** (2013.01 - EP); **C12N 2720/12334** (2013.01 - EP); **C12N 2740/16034** (2013.01 - EP); **C12N 2760/16134** (2013.01 - EP); **C12N 2760/18534** (2013.01 - EP); **C12N 2770/10034** (2013.01 - EP); **C12N 2770/12034** (2013.01 - EP); **C12N 2770/20034** (2013.01 - EP); **C12N 2770/24134** (2013.01 - EP); **C12N 2770/24161** (2013.01 - EP); **C12N 2770/32434** (2013.01 - EP); **C12N 2770/36034** (2013.01 - EP); **Y02A 50/30** (2018.01 - EP)

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 0100234 A2 20010104**; **WO 0100234 A3 20010802**; AU 5880900 A 20010131; CA 2377084 A1 20010104; EP 1196552 A2 20020417; JP 2003503039 A 20030128

DOCDB simple family (application)

**US 0016984 W 20000620**; AU 5880900 A 20000620; CA 2377084 A 20000620; EP 00944760 A 20000620; JP 2001505941 A 20000620