

Title (en)
PREVENTION AND TREATMENT OF VIRAL DISEASE

Title (de)
VERMEIDUNG UND BEHANDLUNG VON VIRALEN ERKRANKUNGEN

Title (fr)
PREVENTION ET TRAITEMENT DE PATHOLOGIE VIRALE

Publication
EP 1102788 A2 20010530 (EN)

Application
EP 99945011 A 19990803

Priority
• US 9917487 W 19990803
• US 9510598 P 19980803
• US 14180699 P 19990629

Abstract (en)
[origin: WO0008043A2] The invention relates to the generation of Fusion-Related Molecular Structures (FRMS) which comprise one or more transitional fusion-related determinants. Highly effective vaccines may be constructed which present the fusion-related determinants to the immune system that engender unique antibodies capable of potentially neutralizing a broad range of primary isolates, from worldwide locations and from different phylogenetic viral clades. The present invention provides methods for formation, isolation and purification of the FRMS as well as the use of such FRMS in a variety of compositions and methods, including, for example, as vaccine immunogens, diagnostics, and therapeutics. The present invention concerns FRMS capable of eliciting neutralizing antibodies to viral pathogens and primary isolates of a virus. Antibodies raised to the FRMS can be used to study the molecular pathway toward fusion of the virus and host cell and to identify points of a possible antibody-mediated blockade to that pathway. The invention also relates to the use of antibodies of the invention for anti-viral agents, blood product additives, contraceptive additives passive immunization in post-exposure treatments or fetus immunization.

IPC 1-7
C07H 21/04; A61K 48/00; A61K 39/395; C12N 1/20

IPC 8 full level
G01N 33/569 (2006.01); **A61K 9/10** (2006.01); **A61K 39/12** (2006.01); **A61K 39/145** (2006.01); **A61K 39/155** (2006.01); **A61K 39/205** (2006.01); **A61K 39/21** (2006.01); **A61K 39/23** (2006.01); **A61K 39/275** (2006.01); **A61K 39/395** (2006.01); **A61P 31/12** (2006.01); **A61P 31/14** (2006.01); **A61P 31/16** (2006.01); **A61P 31/18** (2006.01); **A61P 31/20** (2006.01); **A61P 31/22** (2006.01); **C07K 14/005** (2006.01); **C07K 14/705** (2006.01); **C07K 16/08** (2006.01); **C07K 16/10** (2006.01); **C07K 19/00** (2006.01); **C12N 5/10** (2006.01); **C12N 7/00** (2006.01); **C12N 15/09** (2006.01); **C12P 21/02** (2006.01); **C12P 21/08** (2006.01); **G01N 33/577** (2006.01)

CPC (source: EP KR)
A61K 39/12 (2013.01 - EP); **A61K 39/21** (2013.01 - EP); **A61P 31/12** (2017.12 - EP); **A61P 31/14** (2017.12 - EP); **A61P 31/16** (2017.12 - EP); **A61P 31/18** (2017.12 - EP); **A61P 31/20** (2017.12 - EP); **A61P 31/22** (2017.12 - EP); **C07K 16/1063** (2013.01 - EP); **C07K 19/00** (2013.01 - KR); **A61K 2039/505** (2013.01 - EP); **A61K 2039/5256** (2013.01 - EP); **A61K 2039/53** (2013.01 - EP); **A61K 2039/545** (2013.01 - EP); **A61K 2039/55566** (2013.01 - EP); **A61K 2039/605** (2013.01 - EP); **C12N 2710/24143** (2013.01 - EP); **C12N 2740/16134** (2013.01 - 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 0008043 A2 20000217; WO 0008043 A3 20000511; WO 0008043 A9 20011213; AU 5771599 A 20000228; BR 9912732 A 20011127; CA 2338983 A1 20000217; CN 1321165 A 20011107; EP 1102788 A2 20010530; EP 1102788 A4 20020828; IL 141211 A0 20020210; JP 2002522448 A 20020723; KR 20010085326 A 20010907

DOCDB simple family (application)
US 9917487 W 19990803; AU 5771599 A 19990803; BR 9912732 A 19990803; CA 2338983 A 19990803; CN 99811641 A 19990803; EP 99945011 A 19990803; IL 14121199 A 19990803; JP 2000563676 A 19990803; KR 20017001483 A 20010203