

Title (en)
METHOD FOR IDENTIFYING ALZHEIMER'S DISEASE THERAPEUTICS USING TRANSGENIC ANIMAL MODELS

Title (de)
METHODE ZUR IDENTIFIZIERUNG VON ARZNEIMITTELN GEGEN DIE ALZHEIMER KRANKHEIT MITTELS TRANSGENER TIERMODELLE

Title (fr)
PROCEDE POUR IDENTIFIER UNE THERAPEUTIQUE DE LA MALADIE D'ALZHEIMER A L'AIDE DE MODELES ANIMAUX TRANSGENIQUES

Publication
EP 0833901 A1 19980408 (EN)

Application
EP 96919314 A 19960607

Priority
• US 9609857 W 19960607
• US 48065395 A 19950607

Abstract (en)
[origin: WO9640896A1] The construction of transgenic animal models of human Alzheimer's disease, and methods of using the models to screen potential Alzheimer's disease therapeutics, are described. The models are characterized by pathologies similar to pathologies observed in Alzheimer's disease, based on expression of all three forms of the beta -amyloid precursor protein (APP), APP695, APP751, and APP770, as well as various point mutations based on naturally occurring mutations, such as the London and Indiana familial Alzheimer's disease (FAD) mutations at amino acid 717, predicted mutations in the APP gene, and truncated forms of APP that contain the A beta region. Animal cells can be isolated from the transgenic animals or prepared using the same constructs with standard techniques such as lipofection or eletroporation. The transgenic animals, or animal cells, are used to screen for compounds altering the pathological course of Alzheimer's disease as measured by their effect on the amount of APP, beta -amyloid peptide, and numerous other Alzeimer's disease markers in the animals, the neuropathology of the animals, as well as by behavioral alterations in the animals.

IPC 1-7
C12N 15/00; **C12N 15/12**; **C12N 15/62**; **C07K 14/47**; **A01K 67/027**; **C12Q 1/68**; **G01N 33/50**

IPC 8 full level
C12N 15/09 (2006.01); **A01K 67/027** (2006.01); **C07K 14/47** (2006.01); **C12N 15/85** (2006.01); **C12Q 1/68** (2006.01); **G01N 33/15** (2006.01)

CPC (source: EP)
A01K 67/0275 (2013.01); **A01K 67/0278** (2013.01); **C07K 14/4711** (2013.01); **C12N 15/8509** (2013.01); **A01K 2207/15** (2013.01); **A01K 2217/00** (2013.01); **A01K 2217/05** (2013.01); **A01K 2227/105** (2013.01); **A01K 2267/0312** (2013.01); **C07K 2319/02** (2013.01)

Citation (search report)
See references of WO 9640896A1

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

DOCDB simple family (publication)
WO 9640896 A1 19961219; AU 6168396 A 19961230; CA 2222174 A1 19961219; EP 0833901 A1 19980408; JP H11507821 A 19990713

DOCDB simple family (application)
US 9609857 W 19960607; AU 6168396 A 19960607; CA 2222174 A 19960607; EP 96919314 A 19960607; JP 50205397 A 19960607