

Title (en)
PROCESS FOR UTILIZING EPITOPES RECOGNIZED BY NATURAL ANTIBODIES

Title (de)
VERFAHREN ZUR ANWENDUNG VON EPITOPEN, DIE DURCH NATÜRLICHE ANTIKÖRPER ERKANNT WERDEN

Title (fr)
PROCEDE D'UTILISATION D'EPITOPES RECONNUS PAR DES ANTICORPS NATURELS

Publication
EP 1180240 A4 20041027 (EN)

Application
EP 00930168 A 20000427

Priority
• US 0011270 W 20000427
• US 13115199 P 19990427
• US 13943199 P 19990607

Abstract (en)
[origin: WO0065350A1] The present invention relates to compositions and methods for the selection and use of surface exposed epitopes. The present invention includes in vivo and in vitro phage peptide display methods for the identification and selection of peptides and peptide associated factors with desired properties (e.g., targeting specificity, stability, etc.). The present invention further provides methods and compositions for the isolation and identification of peptide-specific antibodies. The present invention also includes methods and compositions employing nuclear localization signals for enhanced nuclear transport and expression of DNA.

IPC 1-7
G01N 33/68

IPC 8 full level
G01N 33/543 (2006.01); **G01N 33/68** (2006.01)

CPC (source: EP)
G01N 33/543 (2013.01); **G01N 33/6878** (2013.01)

Citation (search report)

- [X] GEVORKIAN G ET AL: "RAPID COMMUNICATION IDENTIFICATION OF AUTOIMMUNE THROMBOCYTOPENIC PURPURA-RELATED EPITOPES USING PHAGE-DISPLAY PEPTIDE LIBRARY", CLINICAL IMMUNOLOGY AND IMMUNOPATHOLOGY, SAN DIEGO, CA, US, vol. 86, no. 3, 1998, pages 305 - 309, XP000915569, ISSN: 0090-1229
- [X] PUNTORIETO G ET AL: "Towards a solution for hepatitis C virus hypervariability: mimotopes of the hypervariable region 1 can induce antibodies cross-reacting with a large number of viral variants", EMBO JOURNAL, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 17, no. 13, 1 July 1998 (1998-07-01), pages 3521 - 3533, XP002111268, ISSN: 0261-4189
- [X] MENNUNI C ET AL: "Identification of a novel type 1 diabetes-specific epitope by screening phage libraries with sera from pre-diabetic patients", JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 268, no. 3, 9 May 1997 (1997-05-09), pages 599 - 606, XP004459778, ISSN: 0022-2836
- [X] CORTESE R ET AL: "Identification of biologically active peptides using libraries displayed on phage", CURRENT OPINION IN BIOTECHNOLOGY, LONDON, GB, vol. 6, no. 1, 1995, pages 73 - 80, XP002107140, ISSN: 0958-1669
- [X] CORTESE R ET AL: "EPITOPE DISCOVERY USING PEPTIDE LIBRARIES DISPLAYED ON PHAGE", TRENDS IN BIOTECHNOLOGY, ELSEVIER, AMSTERDAM,, GB, vol. 12, 1 July 1994 (1994-07-01), pages 262 - 267, XP000652420, ISSN: 0167-7799
- [X] FOLGORI A ET AL: "A GENERAL STRATEGY TO IDENTIFY MIMOTOPES OF PATHOLOGICAL ANTIGENS USING ONLY RANDOM PEPTIDE LIBRARIES AND HUMAN SERA", EMBO JOURNAL, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 13, no. 9, 1 May 1994 (1994-05-01), pages 2236 - 2243, XP000441903, ISSN: 0261-4189
- See references of WO 0065350A1

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 0065350 A1 20001102; EP 1180240 A1 20020220; EP 1180240 A4 20041027

DOCDB simple family (application)
US 0011270 W 20000427; EP 00930168 A 20000427