

Title (en)  
STRUCTURED SYNTHETIC ANTIGEN LIBRARIES AS DIAGNOSTICS, VACCINES AND THERAPEUTICS

Title (de)  
STRUKTURIERTE SYNTHETISCHE ANTIGENBANKEN ALS DIAGNOSTIKA, IMPFSTOFFE UND THERAPEUTISCHE MITTEL

Title (fr)  
BIBLIOTHEQUES STRUCTUREES D'ANTIGENES DE SYNTHESE UTILISABLES A DES FINS DE DIAGNOSTIC, DE VACCIN ET DE THERAPIE

Publication  
**EP 0725838 A4 19970226 (EN)**

Application  
**EP 94932048 A 19941026**

Priority

- US 9412268 W 19941026
- US 14341293 A 19931026

Abstract (en)  
[origin: WO9511998A1] The present invention relates to "structured synthetic antigen libraries" (SSAL) composed of related peptides synthesized simultaneously in a single peptide synthesis. This "structured" library contrasts to those libraries previously described as "random peptide libraries" in that the order or structure within a synthetic antigen is provided by invariant amino acid residues that define the framework sequence of the synthetic antigen. The specific amino acids and their frequency of appearance at a variant locus within aligned peptide sequences is defined by the primary sequences of the several variants that make up the alignment used to construct the antigen peptide library. A method of constructing an open diagnostic, vaccine or therapeutic for a mutational infectious agent is also provided. The invention further provides the SSAL in diagnostic methods, kits, vaccination methods, vaccine compositions and pharmaceutical compositions. The libraries are prepared from variable domains in proteins and provide improved vaccines, diagnostics and therapeutics for infectious agents, etc., from such proteins.

IPC 1-7  
**C12Q 1/70**; **A61K 39/29**; **C07K 14/18**

IPC 8 full level  
**C07K 1/04** (2006.01); **C07K 7/06** (2006.01); **C07K 14/02** (2006.01); **C07K 14/11** (2006.01); **C07K 14/12** (2006.01); **C07K 14/15** (2006.01); **C07K 14/16** (2006.01); **C07K 14/18** (2006.01); **C07K 14/20** (2006.01); **C07K 14/295** (2006.01); **C07K 14/315** (2006.01); **C07K 14/44** (2006.01); **C07K 14/705** (2006.01); **C07K 14/74** (2006.01); **C07K 14/78** (2006.01); **A61K 38/00** (2006.01); **A61K 39/00** (2006.01)

CPC (source: EP)  
**C07K 1/047** (2013.01); **C07K 7/06** (2013.01); **C07K 14/005** (2013.01); **C07K 14/20** (2013.01); **C07K 14/295** (2013.01); **C07K 14/315** (2013.01); **C07K 14/44** (2013.01); **C07K 14/70539** (2013.01); **C07K 14/7056** (2013.01); **C07K 14/78** (2013.01); **A61K 38/00** (2013.01); **A61K 39/00** (2013.01); **C12N 2730/10122** (2013.01); **C12N 2740/16122** (2013.01); **C12N 2740/16222** (2013.01); **C12N 2760/16122** (2013.01); **C12N 2760/18422** (2013.01); **C12N 2770/24222** (2013.01); **Y02A 50/30** (2018.01)

Citation (search report)

- [X] WO 9209300 A1 19920611 - ITEREX PHARMA LP [US]
- [E] EP 0639584 A1 19950222 - INTERPHARM LAB LTD [IL]
- [X] A FURKA ET AL.: "General method for rapid synthesis of multicomponent peptide mixtures", INTERNATIONAL JOURNAL OF PEPTIDE AND PROTEIN RESEARCH, vol. 37, no. 1, January 1991 (1991-01-01), COPENHAGEN DK, pages 487 - 493, XP000206365
- See also references of WO 9511998A1

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

DOCDB simple family (publication)  
**WO 9511998 A1 19950504**; AU 8091694 A 19950522; CA 2175579 A1 19950504; EP 0725838 A1 19960814; EP 0725838 A4 19970226; IL 111417 A0 19941229

DOCDB simple family (application)  
**US 9412268 W 19941026**; AU 8091694 A 19941026; CA 2175579 A 19941026; EP 94932048 A 19941026; IL 11141794 A 19941027