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(54) Title: CONTIGUOUS OVERLAPPING PEPTIDES FOR TREATMENT OF BIRCH POLLEN ALLERGY

(57) Abstract: Contiguous overlapping peptides (COPs) for the treatment of allergic patients by Specific Immunotherapy (SIT) are provided from the sequence of the major allergen of birch pollen Bet v 1. Such peptides while providing all potential T cell epitopes are devoid of the 3D structure of the original allergen, therefore reducing their ability to bind IgE.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K39/36 C07K14/415
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VRTALA S ET AL: "Conversion of the major birch pollen allergen, bet v 1, into two nonanaphylactic T cell epitope-containing fragments: Candidates for a novel form of specific immunotherapy" JOURNAL OF CLINICAL INVESTIGATION, AMERICAN SOCIETY FOR CLINICAL INVESTIGATION, US LNKD- DOI:10.1172/JCI119330, vol. 99, no. 7, 1 January 1997 (1997-01-01), pages 1673-1681, XP002221492 ISSN: 0021-9738	6,16,25, 26
Y	the whole document ----- -/-	1-5, 7-15, 17-24, 27-31



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PUROHIT A ET AL: "Clinical effects of immunotherapy with genetically modified recombinant birch pollen Bet v 1 derivatives" CLINICAL AND EXPERIMENTAL ALLERGY, vol. 38, no. 9, September 2008 (2008-09), pages 1514-1525, XP002595735 ISSN: 0954-7894	6,16,25, 26
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Y	----- WO 2004/081028 A2 (UNIV LAUSANNE [CH]; SPERTINI FRANCOIS [CH]) 23 September 2004 (2004-09-23) * abstract; examples 1, 2 -----	1-31
Y	GARNIER VON C ET AL: "Allergen-derived long peptide immunotherapy down-regulates specific IgE response and protects from anaphylaxis" EUROPEAN JOURNAL OF IMMUNOLOGY, WILEY - V C H VERLAG GMBH & CO. KGAA, DE LNKD-DOI:10.1002/1521-4141(200006)30:6<1638::AI D-IMMU1638>3.0.CO;2-R, vol. 30, no. 6, 1 June 2000 (2000-06-01), pages 1638-1645, XP002297947 ISSN: 0014-2980 the whole document	1-31
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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