

Title (en)
NOVEL VACCINES AGAINST MULTIPLE SUBTYPES OF DENGUE VIRUS

Title (de)
NEUARTIGE IMPFSTOFFE GEGEN MEHRERE SUBTYPEN DES DENGUE-VIRUS

Title (fr)
NOUVEAUX VACCINS CONTRE DE MULTIPLES SOUS-TYPES DU VIRUS DE LA DENGUE

Publication
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Application
EP 14763126 A 20140314

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Abstract (en)
[origin: CN105246491A] An aspect of the present invention is related to nucleic acid constructs capable of expressing a polypeptide, such as a consensus dengue prME that elicits an immune response in a mammal against more than one subtype of dengue virus, and methods of use thereof. Additionally, there are DNA plasmid vaccines capable of generating in a mammal an immune response against a plurality of dengue virus subtypes, comprising a DNA plasmid and a pharmaceutically acceptable excipient, and methods of use thereof. The DNA plasmid is capable of expressing a consensus dengue antigen in a cell of the mammal in a quantity effective to elicit an immune response in the mammal that is cross reactive against all 4 dengue subtypes.

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Y02A 50/30 (2017.12)

Citation (search report)
• [X] WO 2009073330 A2 20090611 - UNIV PENNSYLVANIA [US], et al
• [XII] APT D ET AL: "Tetavalent neutralizing antibody response against four dengue serotypes by a single chimeric dengue envelope antigen", VACCINE, ELSEVIER LTD, GB, vol. 24, no. 3, 16 January 2006 (2006-01-16), pages 335 - 344, XP028010449, ISSN: 0264-410X, [retrieved on 20060116], DOI: 10.1016/J.VACCINE.2005.07.100
• [XII] RAVIPRAKASH K ET AL: "A chimeric tetavalent dengue DNA vaccine elicits neutralizing antibody to all four virus serotypes in rhesus macaques", VIROLOGY, ELSEVIER, AMSTERDAM, NL, vol. 353, no. 1, 15 September 2006 (2006-09-15), pages 166 - 173, XP024896386, ISSN: 0042-6822, [retrieved on 20060915], DOI: 10.1016/J.VIROL.2006.05.005
• [XII] RAMANATHAN M P ET AL: "Development of a novel DNA SynCon(TM) tetavalent dengue vaccine that elicits immune responses against four serotypes", VACCINE, ELSEVIER LTD, GB, vol. 27, no. 46, 30 October 2009 (2009-10-30), pages 6444 - 6453, XP026704481, ISSN: 0264-410X, [retrieved on 20090704], DOI: 10.1016/J.VACCINE.2009.06.061
• [X] RAMANATHAN M P ET AL: "Coimmunization with an optimized IL15 plasmid adjuvant enhances humoral immunity via stimulating B cells induced by genetically engineered DNA vaccines expressing consensus JEV and WNV E DIII", VACCINE, ELSEVIER LTD, GB, vol. 27, no. 32, 9 July 2009 (2009-07-09), pages 4370 - 4380, XP026210587, ISSN: 0264-410X, [retrieved on 20090306], DOI: 10.1016/J.VACCINE.2009.01.137
• [X] DOMINICK J LADDY ET AL: "Heterosubtypic protection against pathogenic human and avian influenza viruses via in vivo electroporation of synthetic consensus DNA antigens", PLOS ONE, PUBLIC LIBRARY OF SCIENCE, US, vol. 3, no. 6, 1 June 2008 (2008-06-01) - 1 June 2008 (2008-06-01), pages 1 - 8, XP008132555, ISSN: 1932-6203, DOI: 10.1371/JOURNAL.PONE.0002517
• [T] LADDY ET AL: "Immunogenicity of novel consensus-based DNA vaccines against avian influenza", VACCINE, ELSEVIER LTD, GB, vol. 25, no. 16, 29 March 2007 (2007-03-29), pages 2984 - 2989, XP022004278, ISSN: 0264-410X, DOI: 10.1016/J.VACCINE.2007.01.063
• [T] NIRANJAN Y SARDESAI ET AL: "Electroporation delivery of DNA vaccines: prospects for success", CURRENT OPINION IN IMMUNOLOGY, vol. 23, no. 3, 1 June 2008 (2008-06-01), pages 421 - 429, XP028223967, ISSN: 0952-7915, [retrieved on 20110330], DOI: 10.1016/J.COI.2011.03.008
• See references of WO 2014144786A1

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Designated extension state (EPC)
BA ME

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