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61/486,177 13 May 2011 (13.05.2011) US(71) Applicant (for all designated States except US): **LOS ANGELES BIOMEDICAL RESEARCH INSTITUTE AT HARBOR-UCLA MEDICAL CENTER** [US/US]; 1124 West Carson Street, Building N-14, Room 11, Torrance, CA 90502 (US).

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(54) Title: COMPOSITIONS AND METHODS FOR IMMUNIZATION AGAINST DRUG RESISTANT ACINETOBACTER BAUMANNII

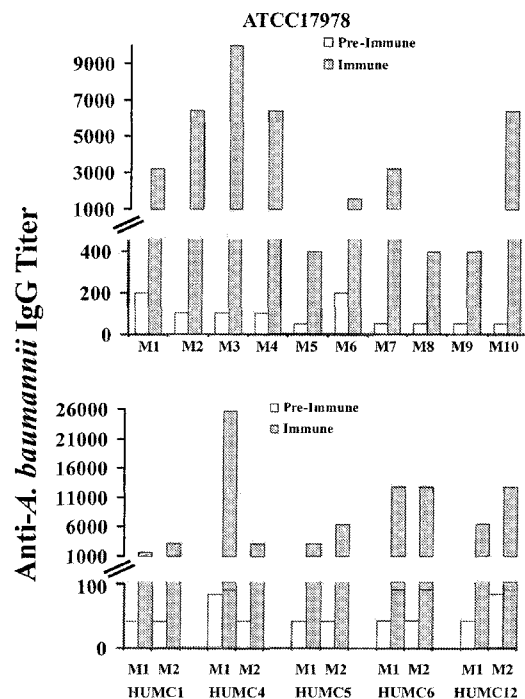


Figure 1

(57) Abstract: The present invention provides vaccine compositions comprising OmpA, or antigenic fragments thereof, and related methods of active immunization against *A. baumannii* infection. The invention also provides antibodies and antigen-binding parts thereof that specifically bind to OmpA, and related methods of passive immunization against *A. baumannii* infection. The compositions and methods of the invention are useful for preventing or treating *A. baumannii* infections, including those caused by strains resistant to carbapenems and all other antibiotics except colistin or tigecycline, also referred to as extreme drug resistant (XDR) *A. baumannii* infections, and those resistant to every FDA approved antibiotic, also referred to as pan-drug resistant (PDR) *A. baumannii* infections.



SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR,
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A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61K 39/02 (2012.01), USPC - 530/806 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) IPC(8) - A61K 39/00, 39/02, C07K 9/00, 14/00, 14/22, 14/195; G01N 33/53, 33/569 (2012.01) USPC - 424/184.1, 185.1, 190.1, 191.1, 234.1; 530/300, 326, 327, 806, 825 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 practicable, search terms used) Patbase, Google Patents, Google, PubMed, Sequence Search		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,713,062 B1 (MERCHANT) 30 March 2004 (30.03.2004) entire document	1, 2, 24, 27
A	MCCONNELL et al. "Vaccination with Outer Membrane Complexes Elicits Rapid Protective Immunity to Multidrug-Resistant <i>Acinetobacter baumannii</i> ", <i>Infection and Immunity</i> , 25 October 2010 (25.10.2010), Vol. 79, No. 1, Pgs. 518-526 and S1-S3. entire document	1-27
A	JYOTHISRI et al. "Purification and characterization of a major 40 kDa outer membrane protein of <i>Acinetobacter baumannii</i> ", <i>FEBS Letters</i> , 22 January 1999 (22.01.1999), Vol. 443, No. 1, Pgs. 57-60. entire document	1-27
A	MCCONNELL et al. "Expression, purification, and refolding of biologically active <i>Acinetobacter baumannii</i> OmpA from <i>Escherichia coli</i> inclusion bodies", <i>Protein Expression and Purification</i> , 03 December 2010 (03.12.2010), Vol. 77, Pgs. 98-103. entire document	1-27
A	US 6,562,958 B1 (BRETON et al) 13 May 2003 (13.05.2003) entire document	1-27
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