US006475995B1

(12) **United States Patent**
Roy et al.

(10) **Patent No.: US 6,475,995 B1**
(45) **Date of Patent: Nov. 5, 2002**

(54) **ORAL DELIVERY OF NUCLEIC ACID VACCINES BY PARTICULATE COMPLEXES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/232,167**

(22) Filed: **Jan. 15, 1999**

Related U.S. Application Data

(60) Provisional application No. 60/071,679, filed on Jan. 16, 1998.

(51) **Int. Cl.**[7] **A61K 48/00**

(52) **U.S. Cl.** **514/44**; 424/489; 424/492; 424/497; 424/499; 435/320.1; 435/455

(58) **Field of Search** 424/489, 492, 424/497, 499, 439; 514/44; 435/320.1, 455; 536/23.1

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(57) **ABSTRACT**

Nanoparticle coacervates of nucleic acids and polycations serve as effective vaccines when administered orally. They can induce immunity to a variety of disease causing agents and raise a protective response to allergens.

6 Claims, 11 Drawing Sheets