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(71) Applicants: **ADVAXIS, INC.** [US/US]; 305 College Road East, Princeton, New Jersey 08540 (US). **NATIONAL INSTITUTES OF HEALTH (NIH), U.S. DEPT. OF HEALTH AND HUMAN SERVICES (DHHS), U.S. GOVERNMENT NIH DIVISION OF EXTRAMURAL INVENTIONS AND TECHNOLOGY RESOURCES (DEITR)** [US/US]; 6705 Rockledge Drive, Suite 310, MSC 7980, Bethesda, Maryland 20892-7980 (US).

(72) Inventors: **PETIT, Robert**; 149 Parsons Lane, Newtown (Wrightstown), Pennsylvania 18940 (US). **WALLECHA, Anu**; 201 Wildflower Circle, Yardley, Pennsylvania 19067 (US). **CHEN, Zhisong**; 8818 Tuckerman Ln., Potomac, Maryland 20854 (US). **BERZOFSKY, Jay A.**; 5908 Bradley Blvd., Bethesda, Maryland 20814 (US). **KHLEIF, Samir**; 13408 Hathaway Drive, Silver Springs, Maryland 20906 (US).

(74) Agents: **PEARL COHEN ZEDEK LATZER BARATZ LLP** et al.; 1500 Broadway, 12th Floor, New York, New York 10036 (US).

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[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR INCREASING A T-EFFECTOR CELL TO REGULATORY T CELL RATIO

(57) Abstract: The present invention is directed to methods for increasing T-cell effector cell to regulatory T cell ratio. The invention is further directed to methods of treating, protecting against, and inducing an immune response against a tumor, comprising the step of administering to a subject a recombinant *Listeria* strain, comprising a fusion peptide that comprises an LLO fragment and tumor-associated antigen.

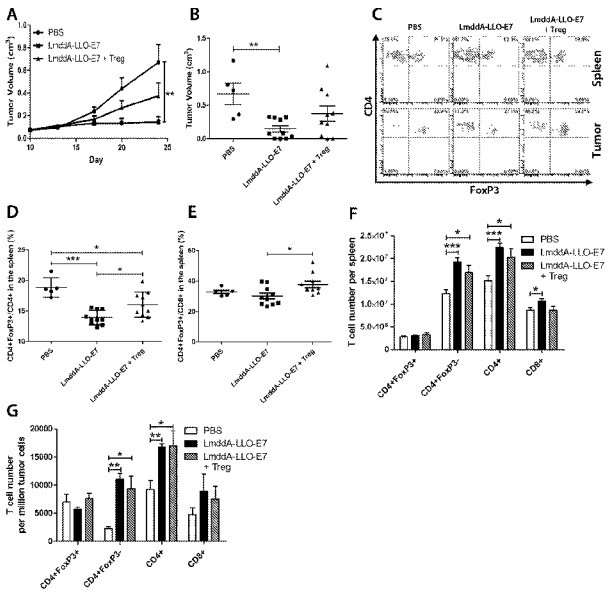


Figure 9

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