ABSTRACT

GAMMA DELTA T CELLS AND A METHOD OF AUGMENTING THE TUMORICIDAL ACTIVITY OF THE SAME

The present invention relates to a method of generating γδ T cells having at least one down-regulated co-inhibitory receptor, the method comprising the steps of: (a) culturing a population of cells comprising γδ T cells with a phosphoantigen to expand the γδ T cells; and (b) culturing the expanded γδ T cells with artificial antigen-presenting cells expressing a Fc receptor, and an anti-CD3 antibody. The present invention also relates to γδ T cells generated according to a method of the present invention, as well as methods of treatment and medical uses thereof.

(Figure 2A)