ABSTRACT

INTRACELLULAR DELIVERY OF BIOMOLECULES TO INDUCE TOLERANCE

The present invention provides methods for inducing tolerance and/or suppressing an immune response to an antigen by passing a cell suspension containing an anucleate cell through a constriction, wherein the constriction deforms the cell thereby causing a perturbation of the cell such that an antigen and/or tolerogenic factor enters the cell. In some embodiments, the anucleate cell is delivered to an individual and the antigen is delivered to and processed in a tolerogenic environment to induce tolerance and/or suppress an immune response to the antigen.

Fig. 8