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(54) Title: CALCINEURIN INHIBITOR RESISTANT IMMUNE CELLS FOR USE IN ADOPTIVE CELL TRANSFER THERAPY

(57) Abstract: The present invention relates to immune cells in which the regulatory activity of miR-17~92 cluster or paralogs thereof is increased to confer calcineurin inhibitor resistance. In particular said immune cell is engineered to overexpress at least one miRNA of miR-17~92 cluster or paralogs thereof or to inactivate at least one miR-17~92 cluster target gene to confer calcineurin inhibitor resistance. Particularly, the present invention relates to the use of calcineurin inhibitor-resistant immune cells in combination with calcineurin inhibitor in adoptive cell transfer therapy in a patient in need thereof.



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