

~~What is Claimed is:~~ CLAIMS

1. A composition comprising a cell modified to be hypoimmunogenic and to express one or more foreign molecules.

2. The composition of claim 1 wherein the foreign molecule is a protein, carbohydrate, nucleotide, cytokines, chemokine, antibody or lectin.

3. The composition of claim 2 wherein the protein is antigenic.

4. The composition of claim 3 wherein the antigenic protein is a viral antigen or an antigen against tumor epitopes.

5. The composition of claim 2 wherein the foreign molecule is an antibody.

6. The composition of claim 1 wherein the cell is modified to be hypoimmunogenic by eliminating or lowering expression of Class I epitopes and Class II epitopes.

7. The composition of claim 1 wherein the cell is a mesenchymal stem cell.

8. A vaccine comprising the composition of any one of claims 1 to 7 and a pharmaceutically acceptable carrier.

9. The vaccine of claim 8 further comprising an additional activation agent.

10. The vaccine of claim 9 wherein the activation agent is foreign viral DNA or Poly I:C (Polyinosinic:polycytidylic acid).

11. ~~A method for inducing an immune response against a foreign antigen in a mammal, said method comprising administering to the mammal~~ Use of the composition of any one of claims 1 to 7 in the preparation of a medicament or
5 the a vaccine of claim 8 for inducing an immune response against a foreign antigen in a mammal.

12. ~~A method for protecting a mammal from a disease or infection relating to a foreign antigen, said method comprising administering to the mammal~~ Use of the composition of any one of claims 1 to 7 in the preparation of a medicament or
10 thea vaccine of claim 8 for protecting a mammal from a disease or infection relating to a foreign antigen in a mammal.

13. A method for producing a vaccine against a foreign antigen, said method comprising modifying a cell to be hypoimmunogenic and to express the foreign antigen.

14. The method of claim 13 wherein the cell is modified to be hypoimmunogenic by eliminating or lowering expression of Class I epitopes and Class II epitopes.

15. A vaccine comprising a cell modified to be hypoimmunogenic and an antigenic peptide or protein.

16. The vaccine of claim 15 wherein the cell is modified to be hypoimmunogenic by eliminating or lowering expression of Class I epitopes and Class II epitopes.

17. Use of a cell modified to be hypoimmunogenic and an antigenic peptide or protein in the preparation of a vaccine ~~A method for enhancing an immune response to an antigenic peptide or protein in a mammal, said method comprising administering to the mammal the vaccine of claim~~
35 ~~15.~~

18. The use of any one of claims 11, 12 or 17, wherein the vaccine further comprises an additional activation agent.

5 19. The use of claim 18, wherein the activation agent is foreign viral DNA or Poly I:C (Polyinosinic:polycytidylic acid).