CLAIMS

1. Use of a mesenchymal stem cell exosome in the preparation of a medicament for use in the treatment or prevention of a disease or disorder of cell or immune homeostasis in an individual.

2. Use of a mesenchymal stem cell exosome according Claim 1, in which the homeostasis comprises cell homeostasis.

3. Use of a mesenchymal stem cell exosome according to Claim 2, in which the cell homeostasis comprises maintenance of a parameter selected from the group consisting of: (a) the number of cells; (b) the state of cells; (c) the type of cells; and (d) the composition of an extracellular environment, preferably an extracellular matrix.

4. Use of a mesenchymal stem cell exosome according to Claim 1, in which the homeostasis comprises immune homeostasis.

5. Use of a mesenchymal stem cell exosome according to Claim 4, in which the immune homeostasis comprises maintenance of an immune response.

6. Use of a mesenchymal stem cell exosome according to any preceding claim, in which the exosome promotes, restores or enhances cell or immune homeostasis in a biological environment in need of such.

7. Use of a mesenchymal stem cell exosome according to Claim 6, in which a biological environment comprising an environment in or of a cell, tissue, organ, system or organism is exposed to the exosome.

8. Use of a mesenchymal stem cell exosome in the preparation of a medicament for promoting, restoring or enhancing cell or immune homeostasis in an individual suffering from a disease or a tissue injury, in which the exosome is administered to the individual.

9. Use of a mesenchymal stem cell exosome according to any preceding claim, in which the individual is suffering from, or in which the disease comprises: (a) an autoimmune disease, for example Crohn disease or muscular dystrophy; (b) a disease where the pathology includes secondary immune reactivity, for example chronic heart failure, atheriosclerosis, a coronary disease or a cerebral artery disease; (c) a neurodegenerative disease; (d) a gerontological condition; (e) an immune disorder, for example chronic inflammation or

reduced immune recognition of self versus non-self; (f) Duchenne muscular dystrophy (DMD); (g) graft-versus-host disease (GVHD); or (h) epidermolysis bullosa (EB).