

CLAIMS

1. A cell preparation for treating a disease of an interosseous joint, comprising a fat cell.
2. The cell preparation according to claim 1, further comprising a mesodermal stem cell.
3. The cell preparation according to claim 1, wherein the mesodermal stem cell is an adipose stem cell.
4. The cell preparation according to claim 1, comprising 1 to 10 mesodermal stem cells per one fat cell.
5. The cell preparation according to claim 1, wherein the fat cell is a cell having been subjected to gamma irradiation.
6. The cell preparation according to claim 1, wherein the disease of an interosseous joint is any one kind selected from the group consisting of spinal disease, joint disease, autoimmune disease and osteonecrosis.
7. Use of a cell preparation comprising a fat cell for production of a therapeutic agent for a disease of an interosseous joint.
8. A cell preparation for use in the treatment of a disease of an interosseous joint, comprising a fat cell.
9. A method for alleviating pain in an interosseous joint, comprising a step of administering a cell preparation comprising a fat cell to the interosseous joint of a patient having a disease of the interosseous joint.
10. A method for regenerating an interosseous joint, comprising a step of administering a cell preparation comprising a fat cell and a mesodermal stem cell to the interosseous joint of a patient having a disease of the interosseous joint.
11. A cell preparation for restoration of a muscle, comprising a fat cell and a

mesodermal stem cell.

12. The cell preparation according to claim 11, wherein the mesodermal stem cell is an adipose stem cell.

13. The cell preparation according to claim 11, comprising 1 to 10 mesodermal stem cells per one fat cell.

14. The cell preparation according to claim 11, wherein the fat cell is a cell having been subjected to gamma irradiation.

15. Use of a cell preparation comprising a fat cell and a mesodermal stem cell for production of a preparation for restoration of a muscle.

16. A cell preparation comprising a fat cell and a mesodermal stem cell used for restoration of a muscle.

17. A method for restoring a muscle, comprising a step of administering a cell preparation comprising a fat cell and a mesodermal stem cell to a site of muscle damage of a patient having muscle damage.

CLAIMS

1. A cell preparation for treating a disease of an osteoarthritis, comprising a fat cell.
2. The cell preparation according to claim 1, further comprising a mesodermal stem cell.
3. The cell preparation according to claim 1, wherein the mesodermal stem cell is an adipose stem cell.
4. The cell preparation according to claim 1, comprising 1 to 10 mesodermal stem cells per one fat cell.
5. The cell preparation according to claim 1, wherein the fat cell is a cell having been subjected to gamma irradiation.
6. The cell preparation according to claim 1, comprising a cellular fraction obtained in following step (1), cellular fraction containing the fat cell obtained in following step (2), cellular fraction obtained in following step (3), or cellular fraction obtained in following step (4),:
step (1): removing a liquid fraction from the collected fat to give a cellular fraction,
step (2): separating a fat cell and an adipose stem cell from at least a part of the cellular fraction obtained in step (1),
step (3): mixing the cellular fraction obtained in step (1) with the cellular fraction containing the fat cell obtained in following step (2) to give a cellular fraction,
Step (4): removing impurities from the cellular fraction obtained in step (1) to give a cellular fraction which is concentrate of the fat cell and adipose stem cell.
7. Use of a cell preparation comprising a fat cell for production of a therapeutic agent for an osteoarthritis.

8. Use according to claim 7, wherein the cell preparation comprises mesodermal stem cell.
9. Use according to claim 7, wherein the mesodermal stem cell is an adipose stem cell.
10. Use according to claim 7, wherein the cell preparation comprises 1 to 10 mesodermal stem cells per one fat cell.
11. Use according to claim 7, wherein the fat cell is a cell having been subjected to gamma irradiation.
12. Use according to claim 7, wherein the cell preparation comprises a cellular fraction obtained in following step (1), cellular fraction containing the fat cell obtained in following step (2), cellular fraction obtained in following step (3), or cellular fraction obtained in following step (4),:
 - step (1): removing a liquid fraction from the collected fat to give a cellular fraction,
 - step (2): separating a fat cell and an adipose stem cell from at least a part of the cellular fraction obtained in step (1),
 - step (3): mixing the cellular fraction obtained in step (1) with the cellular fraction containing the fat cell obtained in following step (2) to give a cellular fraction,
 - Step (4): removing impurities from the cellular fraction obtained in step (1) to give a cellular fraction which is concentrate of the fat cell and adipose stem cell.