CLAIMS

1. A method for delivering exogenous mitochondria into recipient cells, comprising:

a) a step of mixing the recipient cells with mitochondria isolated from donor cells;

a') a step of adding a nonionic surfactant to the mixture; and

b) a step of centrifuging the resulting mixture.

2. The method of claim 1, wherein, in the step a), the mitochondria and the recipient cells are present in the mixture such that the mitochondria are contained in a weight of 0.005 to 25 μg per 1×10^5 cells of the recipient cells.

3. The method of claim 1, wherein in the step b), the centrifugation is performed at a temperature of 0°C to 40°C for 0.5 to 20 minutes with 1 to 2,400 × g.

4. The method of claim 1, wherein the nonionic surfactant in the mixture has a concentration of 1 to 100 mg/ml.

5. The method of any preceding claim, further comprising: a step of performing incubation before the step b).

6. The method of claim 5, wherein the incubation is performed at a temperature of 0°C to 40°C for 0.1 to 4 hours.

7. The method of claim 1, wherein the donor cells and the recipient cells are respectively any one selected from the group consisting of somatic cells, stem cells, cancer cells, and combinations thereof.

8. The method of claim 7, wherein the somatic cells are any one selected from the group consisting of muscle cells, hepatocytes, fibroblasts, epithelial cells, neurons, adipocytes,

osteocytes, leukocytes, lymphocytes, mucosal cells, and combinations thereof.

9. The method of any preceding claim, wherein the donor cells are allogeneic or xenogeneic to the recipient cells.

10. The method of any of claims 1 to 8, wherein the donor cells and the recipient cells are obtained from the same subject or from different subjects.