MARKED SET

Claims

1. The use of thrombopoietin (TPO) for increasing hematopoietic cells in a recipient patient in need of such increase wherein an amount of thrombopoietin (TPO) to stimulate proliferation of cells of the myeloid is administered to a donor, and the bone marrow cells or peripheral blood stem cells are collected from the donor and administered to a recipient patient.

2. A use according to claim 1 wherein the recipient patient has been treated with chemotherapy or radiation therapy.

3. A use according to claim 1 wherein the donor and the recipient patient are the same individual.

4. A use according to claim 3 wherein the recipient patient is treated with chemotherapy or radiation after the collection of the bone marrow cells or peripheral blood stem cells and prior to administration of the cells to the recipient patient.

5. A use according to claim 1 wherein the cells are bone marrow cells.

6. A use according to claim 1 wherein the cells are peripheral blood stem cells.

7. A use according to claim 1 wherein an amount of thrombopoietin (TPO) sufficient to enhance platelet recovery or erythrocyte recovery is administered to the recipient patient after or concurrent with the administration of bone marrow cells or peripheral blood stem cells.

8. A use according to claim 1 wherein the thrombopoietin (TPO) is human thrombopoietin (TPO).

9. The use of thrombopoietin (TPO) in preparing cells for transplantation wherein an amount of thrombopoietin (TPO) sufficient to stimulate proliferation of cells of the myeloid lineage is administered to a donor, and bone marrow cells or peripheral blood stem cells are collected from the donor.

10. A use according to claim 9 wherein the thrombopoietin (TPO) is human thrombopoietin (TPO).

11. A use according to claim 9 wherein the cells are bone marrow cells.

12. A use according to claim 9 wherein the cells are peripheral blood stem cells.

13. The use of thrombopoietin (TPO) for stimulating platelet or erythrocyte recovery in a patient receiving chemotherapy or radiation therapy wherein an amount of thrombopoietin (TPO) sufficient to stimulate proliferation of cells of the myeloid lineage is administered to a patient, and bone marrow cells or peripheral blood stem cells are collected from the patient prior to chemotherapy or radiation therapy and returned subsequent to chemotherapy or radiation therapy.

14. A use according to claim 13 wherein an amount of thrombopoietin sufficient to enhance platelet recovery or erythrocyte recovery is administered to the patient after or concurrent with returning the collected cells.

15. A use according to claim 13 wherein the thrombopoietin (TPO) is human thrombopoietin (TPO).

16. A use according to claim 13 wherein the cells are bone marrow cells.

17. A use according to claim 13 wherein the cells are peripheral blood stem cells.