

Abstract

Process of Harvesting Stem Cells from Bone Marrow (Video Lecture)

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Stem cells have several large characteristics that are different from the adult cells that have basically been differentiated. Representative characteristics of stem cells are self-renewal ability and pluripotency. The "self-renewal" means that the stem cells themselves can reproduce into stem cells with the same characteristics without losing their characteristics of pluripotency, and the "pluripotency" means that the stem cells can differentiate into cells of different lineage under specific environments and conditions. By using stem cells to regenerate damaged cells into healthy cells, many researchers are developing new treatments for intractable diseases that have suffered serious tissue damage. In particular, the range of diseases that are expected to be effective in stem cell therapy is expanding further as a lot of research results on stem cells have been accumulated in recent years. Recently, the use of stem cells for reconstructive and regenerative medicine has increased rapidly around the world, and clinical procedures are being actively carried out in various fields such as wound regeneration and hair loss using stem cells in Korea.
