

عنوان مقاله:

THE ETHICAL CHALLENGE OF STEM CELL RESEARCH AND TISSUE TRANSPLANTATION

محل انتشار:

کنگره بین المللی اخلاق زیستی (سال: 1384)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Ziaei - Associate Prof Tarbiat Modarres University Tehran, Iran

Farokhi

خلاصه مقاله:

Stem cell are the cells which have ability ability and divided and multiplied massively in the cell culture. These cells offer potential treatment for clinical application, serving as unlimited source of cells for transplantation and tissue regeneration. Furthermore , the use of the stem cells almost avoids immunorejection during tissue transplantation. There are three methods for accessing these cells;1) derivation of these stem cells from the inner cell mass of blastocyst – stage embryos probably surplus IVF embryos. This technique appears to be the easiest and the most economical for accessing the stem cells. The immunorejection in tissue transplantation during using these cells almost does not occur; 2) the somatic cell nuclear transfer method wherein an enucleated egg cell is transplanted with a somatic cell nucleus and can be used to clone genetically matched cells and tissues for transplantations without any immunorejection . this new technique promises future hope for the treatment of many diseases. This technique is relatively more difficult than the previous methods; 3) derivation of more differentiated stem cells (multipotent cells) from adult human tissues, or embryo (embryonic germ cells from the primordial germ cells of the embryonic gonad that can be provided from implanted embryos, during gestational period). The process of derivation of multipotent cells from adult human tissues are very difficult; furthermore , scientists have not been able to isolate these cells from many tissues so far. The immunorejection in this transplantation is relatively avoided too. In this article, the ethical and shia religious of research on stem cell are questionable as they inhibit the development of a technique which holds promise for successful application of stem cells in clinical treatment of severe diseases

کلمات کلیدی:

Ethics ; human embryo ; legal ; shia religious ; stem cell research

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/43922>

