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# Stem Cell Research Outline

3 pages | 725 words

1.Introduction to Stem Cells A)Stems cells have are those that have 3 general properties: they are capable of dividing and renewing themselves for long periods, are unspecialized, and can regenerate into other specialized cells B)Essentially cells that have not yet decided what type of adult cell they will become C)One stem cell has the ability to self-renew and make 2 new stem cells D)This characteristic allows scientists to manipulate the properties of the cells to coax them into becoming whatever specific adult cells are needed

2.Types of Stem Cells A)There are 2 broad types of stem cells: Adult stem cells, and the most controversial type, Embryonic stem cells B)One of the most obvious differences in these types is where they come from C)Adult stem cells come from tissue like blood, bone marrow, or adipose (fat) D)Embryonic cells come from blastocytes in developing embryos, or unborn offspring between the ages of 5 days to a month.

E)Another difference is that embryonic stem cells have the ability to become any cell of the body. Adult stem cells are thought to be limited to differentiating into different cell types of their tissue of origin.
F)This means that adult cells taken from blood tissue can only generate other blood tissue cells.

3.Extraction Methods A)Bone marrow stem cells are extracted by needle and are taken from the iliac crest (hip bone). Fat stem cells are extracted by needle from a source of the body where there is a large amount of fat (hips, bottom, and thighs). B)Blood stem cells are taken directly from the blood stream by two needles. One needle takes out the blood and leads directly to a centrifuge, which separates the stem cells from the other blood components. The rest of the blood is passed through a warmer, where it then reenters the bloodstream via the second needle.

4.Potential Uses of Stem Cells A)Many scientists believe that the future of treating complex diseases lies in stem cell research. B)Advances in research may reveal information about how diseases suddenly arise and new treatments for them.

C) Human stem cells may also be used to regenerate body parts and organs, such as limbs, breasts, kidneys, hearts, livers etc. Essentially they can grow these parts in Petri dishes, and later attach them to persons in need. D) This technique can reverse the shortage of donated body parts that we have in the US, and eliminate the use of waiting lists so that people don't die in hopes of a life-saving body part. E) Stem cells can also be programmed to eliminate cancer cells in the body.

Unlike chemotherapy which uses harsh radiation, these cells will not harm the rest of the body's essential tissues. It also will not have the adverse effects of chemo, like hair loss and extreme nausea. F)In all, scientists are studying stem cells in hopes of curing diseases and disorders like cancer, diabetes, blindness, hearing loss, heart conditions, baldness, Alzheimer's, spinal cord injuries, neurological disorders, and birth defects.

5. Ethical Concerns A) The ethical debate centers mainly on the extraction...

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National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Institute of Medicine, Board on Health Sciences Policy, Committee on Assessing the Medical Risks of Human Oocyte Donation for Stem Cell Research

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Ethical Issues in Human Stem Cell Research: Report and recommendations of the National Bioethics Advisory

Commission United States. National Bioethics Advisory Commission, 1999

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Encyclopedia of Stem Cell Research, 2008 Provides an understanding of the basic concepts in stem cell biology and addresses the politics ethics and challenges currently facing the field From publisher description **Encyclopedia of Stem** Cell Research Clive N. Svendsen, Allison D. Ebert, 2008-08-12 What is a stem cell We have a basic working definition but the way we observe a stem cell function in a dish may not represent how it functions in a living organism Only this is clear Stem cells are the engine room of multicelluar organisms both plants and animals However controversies breakthroughs and frustration continue to swirl in eternal storms through this rapidly moving area of research But what does the average person make of all this and how can an interested scholar probe this vast sea of information The Encyclopedia of Stem Cell Research provides a clear understanding of the basic concepts in stem cell biology and addresses the politics ethics and challenges currently facing the field While stem cells are exciting alone they are also clearly fueling the traditional areas of developmental biology and the field of regenerative medicine These two volumes present more than 320 articles that explore major topics related to the emerging science of stem cell research and therapy Key Features Describes the different types of stem cells that have been reported so far and where possible tries to explain for each age tissue and species what is known about the biology of the cells and their history Captures a strong sense of stem cell biology as it stands today and provides the reader with a reference manual to probe the mysteries of the field Considers various religious legal and political perspectives Includes selected reprints of major journal articles that pertain to the milestones achieved in stem cell research Elucidates stem cell terminology for the nonscientist Key Themes Biology Clinical Trials Countries Diseases Ethics History and Technology Industry Institutions Legal Organizations People Politics Religion States With contributions from scholars and institutional experts in the stem cell and social sciences this Encyclopedia provides a primarily nonscientific resource to understanding the complexities of stem cell research for academic and public libraries Assessing the Medical Risks of Human Oocyte Donation for Stem Cell Research National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Institute of Medicine, Board on Health Sciences Policy, Committee on Assessing the Medical Risks of Human Oocyte Donation for Stem Cell Research, 2007-03-22 It is widely understood that stem cell treatments have the potential to revolutionize medicine Because of this potential in 2004 California voters approved Proposition 71 to set up a 10 year 3 billion program to fund research on stem cells Under the direction of the California Institute for Regenerative Medicine this program will pay to build facilities for stem cell research and will fund doctors and scientists to carry out research with the ultimate goal of helping to develop therapies based on stem cells For this research to move forward however will require a

steady supply of stem cells particularly human embryonic stem cells Those stem cells are collected from developing human embryos created from eggs or oocytes harvested from the ovaries of female donors. Thus much of the promise of stem cells depends on women choosing to donate oocytes to the research effort The oocyte donation process is not without risk however Donors are given doses of hormones to trigger the production of more eggs than would normally be produced and this hormone treatment can have various side effects Once the eggs have matured in the ovary they must be retrieved via a surgical procedure that is typically performed under anesthesia and both the surgery and the anesthesia carry their own risks Furthermore given the very personal nature of egg donation the experience may carry psychological risks for some women as well With this in mind in 2006 the California Institute for Regenerative Medicine contracted with the National Academies to organize a workshop that would bring together experts from various areas to speak about the potential risks of oocyte donation and to summarize what is known and what needs to be known about this topic The Committee on Assessing the Medical Risks of Human Oocyte Donation for Stem Cell Research was formed to plan the workshop which was held in San Francisco on September 28 2006 This report is a summary and synthesis of that workshop The National Bioethics Advisory Commission Elisa Eiseman, 2003 The National Bioethics Advisory Commission NBAC was established in 1995 to advise various government entities on issues arising from research on human biology and behavior During its five year tenure NBAC submitted six reports to the White House containing 120 recommendations on several complex bioethical issues including the cloning of human beings and embryonic stem cell research This study assesses NBAC s contribution to policymaking by tracking the response to NBAC s recommendations from the president Congress government societies and foundations other countries and international groups Research Regulatory Compliance Mark A. Suckow, Bill Yates, 2015-06-14 Research Regulatory Compliance offers the latest information on regulations and compliance in the laboratory With the increasing complexity of regulations and need for institutional infrastructure to deal with compliance of animal use issues as well as a requirement surrounding human subjects this publication provides reputable guidance and information The book is extremely helpful as a resource for researchers administrators and technicians in the laboratory and is also a great asset for faculty or new researchers coming in to the laboratory environment It will help prepare users for the deluge of regulatory and compliance issues they will face while conducting their scientific programs The book is edited and authored by known leaders in the field of compliance and regulations and contains extensive research on the topics It represents the new standard for information in every laboratory Provides a one stop go to resource for the many regulatory and compliance issues that affect laboratory study and research models Extremely helpful as a resource for researchers administrators and technicians in the laboratory and also a great asset for faculty or new researchers coming in to the laboratory environment Focuses on United States regulations covering both animal models and human subjects Written and edited by known leaders in the field of regulatory compliance who bring many years of collective experience to the book

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The text and its authors work from the assumption that the most advanced learners need a qualitatively different design of learning experiences in order to develop their potential into outstanding achievement answering the question How should we design learning experiences for our most advanced academic students in the foundational curriculum areas This book provides the most contemporary thinking about how to design in depth courses of study in the foundational curriculum areas with a high degree of complexity and advanced content The book includes chapters articulating specific design components like creative thinking critical thinking and authentic research but also subject specific chapters in mathematics language arts science and social studies to demonstrate application of those design components Progenitor and Stem Cell Technologies and Therapies Anthony Atala, 2012-03-15 Progenitor and stem cells have the ability to renew themselves and change into a variety of specialised types making them ideal materials for therapy and regenerative medicine Progenitor and stem cell technologies and therapies reviews the range of progenitor and stem cells available and their therapeutic application Part one reviews basic principles for the culture of stem cells before discussing technologies for particular cell types These include human embryonic induced pluripotent amniotic and placental cord and multipotent stem cells Part two discusses wider issues such as intellectual property regulation and commercialisation of stem cell technologies and therapies The final part of the book considers the therapeutic use of stem and progenitor cells Chapters review the use of adipose tissue derived stem cells umbilical cord blood UCB stem cells bone marrow auditory and oral cavity stem cells Other chapters cover the use of stem cells in therapies in various clinical areas including lung cartilage urologic nerve and cardiac repair With its distinguished editor and international team 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