

Research Paper Example on Human Stem Cell Essay

Introduction

According to Kim (et al., 2009), the stem cells are cells which possess the capacity of dividing and giving rise to the symmetrical divisions or differentiating to particular cells of the somatic tissues. The stem cells are acquired from the early embryos and the adult tissues. The two stem cells possess various characteristics where the embryo cells have prolonged proliferation concerning their pluripotent state, and they contain developmental potential which helps in forming derivatives of the three embryonic germ layers. The embryonic stem cells proliferate for a long duration under the in-vitro environment thus can differentiate to a diverse range of the cell types. The hematopoietic stem cells were discovered by Ernest McCulloh and James Till in 1978. Therefore, the human stem cell was discovered by James Alexander Thomson who was an American developmental biologist.

Purpose of the Human Stem Cell Research

The research would help in the promotion of the tissue regenerations since individuals who require new kidney have to wait for a donor. The scientist can use human stem cells to grow particular organs and tissues due to the shortage of donor organs. For example, the medical practitioner is using the stem cells which are located under the skin surface in the production of the new tissues (Sandel, 2004). The research has promoted the repair of severe burns through grafting of the new skin tissue on the affected skin leading to its growth.

The biologists are researching on the human stem cells since it would help in developing the healthy heart cells which will be transplanted to individuals suffering from the heart diseases. The new cells when they are introduced into an individual with the heart condition will multiply and repopulate the heart with the healthy tissues (Sandel, 2004). The people suffering for the type 1 diabetes will acquire the pancreatic cells which would help in the replacement of insulin-producing cells which their immune systems have destroyed.

According to Sandel (2004), the research helped doctors in treating the blood diseases where they utilize the adult hematopoietic stem cells in treating the sickle cell anemia and leukemia. The hematopoietic stem cells are introduced into the body of individuals hence having the ability to produce various types of the blood cells. The human stem cells help in producing the white blood cells which are responsible for fighting the disease-causing microorganisms and the red blood cells which help in carrying oxygen throughout the body.

Consequently, the research on human stem cells is aiming at helping in the treatment of cardiovascular diseases. Researchers implanted the human stem cells to create the blood vessels in the laboratory using mice where a network of the blood-perfused vessels developed after two weeks (Sandel, 2004). The researchers hoped that the technique would assist in the treatment of an individual with vascular and cardiovascular diseases.

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Final Report of the National Academies' Human Embryonic Stem Cell Research Advisory Committee and 2010 Amendments to the National Academies' Guidelines for Human Embryonic Stem Cell Research National Research Council, Institute of Medicine, Board on Health Sciences Policy, Division on Earth and Life Studies, Board on Life Sciences, Human Embryonic Stem Cell Research Advisory Committee, 2010-08-13 In 2005 the National Academies released the book Guidelines for Human Embryonic Stem Cell Research which offered a common set of ethical standards for a field that due to the absence of comprehensive federal funding was lacking national standards for research In order to keep the Guidelines up to date given the rapid pace of scientific and policy developments in the field of stem cell research the Human Embryonic Stem Cell Research Advisory Committee was established in 2006 with support from The Ellison Medical Foundation The Greenwall Foundation and the Howard Hughes Medical Institute As it did in 2007 and 2008 the Committee identified issues that warranted revision and this book addresses those issues in a third and final set of amendments Specifically this book sets out an updated version of the National Academies Guidelines one that takes into account the new expanded role of the NIH in overseeing hES cell research It also identifies those avenues of continuing National Academies involvement deemed most valuable by the research community and other significant stakeholders

Ethical Issues in Human Stem Cell Research: Report and recommendations of the National Bioethics Advisory Commission United States. National Bioethics Advisory Commission, 1999 Stem Cells, Human Embryos and Ethics Lars Østnor, 2008-04-03 Is it acceptable from an ethical point of view to use stem cells from human embryos for scientific research and clinical therapy And what are the weaknesses and strengths of various opinions and positions when they are critically evaluated These are the main problems dealt with in this book The various chapters as a whole give a comprehensive many sided and balanced discussion of the subject The book contains contributions from biological medical social political philosophical and theological perspectives The authors have been chosen because of their professional competence many of them being respected scholars on a top international level They give an updated contribution from their own discipline in order to enlighten the different aspects of the common theme The authors cover various positions and evaluations with regard to the question of the use of embryonic stem cells for research and therapy The book is written for several audiences a scholars and professionals working with stem cell research or with the ethical questions arising from this field people from biology medicine law philosophy theology etc b advanced and graduate students within the same professional disciplines and c politicians and the general public interested in the burning ethical problems which are intensively debated in many countries

Bioethics in Context Gary E. Jones, Joseph P. DeMarco, 2016-07-27 In Bioethics in Context Gary Jones and Joseph DeMarco connect ethical theory medicine and the law guiding readers toward a practical and legally grounded understanding of key issues in health care ethics This book is uniquely up to date in its discussion of health care law and

unpacks the complex web of American policies including the Patient Protection and Affordable Care Act Useful case studies and examples are embedded throughout and a companion website offers a thorough curated database of relevant legal precedents as well as additional case studies and other resources *Cloning* David E. Newton, 2015-08-11 This book provides a detailed introduction to the cloning of both plants and animals and discusses the important social ethical political technical and other issues related to the practice The history of cloning experiments dates back more than a century but advances in technology in recent decades have multiplied the potential applications of cloning and expanded the controversies surrounding these possibilities *Cloning A Reference Handbook* provides an accessible description of the development of plant and animal cloning from the early stages of human civilization to the present day and coherently covers the science and technology involved It reviews the essential controversies that have arisen about cloning particularly applications involving human DNA as researchers have advanced and extended the tools for cloning organisms Additionally the book discusses public opinion about cloning and the legislative and administration actions that have been taken with regard to the practice This single volume work provides a broad treatment of the subject going back further in history than is the case with most texts covering plant cloning and providing a thorough overview of the nature of animal cloning and related issues Examples of the topics covered include the natural cloning processes of regeneration in plants and animals crucial research breakthroughs on animal cloning by Robert Briggs and Thomas King John Gurdon Gail Martin James Till and Earnest McCulloch and others and the laws that regulate which types of cloning are allowed and prohibited in the United States and in other countries **Frontiers in Stem Cell Research** Julia M. Spanning, 2007 Among the many applications of stem cell research are nervous system diseases diabetes heart disease autoimmune diseases as well as Parkinson s disease end stage kidney disease liver failure cancer spinal cord injury multiple sclerosis Parkinson s disease and Alzheimer s disease Stem cells are self renewing unspecialised cells that can give rise to multiple types all of specialised cells of the body Stem cell research also involves complex ethical and legal considerations since they involve adult foetal tissue and embryonic sources This book brings together leading research from throughout the world in this frontier field **Technology and Values** Craig Hanks, 2009-05-04 This anthology features essays and book excerpts on technology and values written by preeminent figures in the field from the early 20th century to the present It offers an in depth range of readings on important applied issues in technology as well Useful in addressing questions on philosophy sociology and theory of technology Includes wide ranging coverage on metaphysics ethics and politics as well as issues relating to gender biotechnology everyday artifacts and architecture A good supplemental text for courses on moral or political problems in which contemporary technology is a unit of focus An accessible and thought provoking book for beginning and advanced undergraduates yet also a helpful resource for graduate students and academics **House of Commons Debates, Official Report** Canada. Parliament. House of Commons, 2003 *Research Report* , 1990 **Official Report of the Debates of the House of**

Commons Canada. Parliament. House of Commons,2009-06-02 *Government proposals for the regulation of hybrid and chimera embryos* Great Britain: Parliament: House of Commons: Science and Technology Committee,2007-04-05 For Vol 1 see ISBN 9780215033512 **Stem Cells** Department of Health and Human Services,National Institutes of Health,2013-10-05 In February 2001 the Secretary of Health and Human Services requested that the National Institutes of Health prepare a summary report on the state of the science on stem cells This report was developed in response to his request It provides the current information about the biology of stem cells derived from all sources embryo fetal tissue and adult Since 1998 when human pluripotent stem cells were first isolated research on stem cells has received much public attention both because of its extraordinary promise and because of relevant legal and ethical issues Underlying this recent public scrutiny is decades of painstaking work by scientists in many fields who have been deciphering some of the most fundamental questions about life with the goal of improving health In the last several decades investments in basic research have yielded extensive knowledge about the many and complex processes involved in the development of an organism including the control of cellular development But many questions remain How does a single cell the fertilized egg give rise to a complex multi cellular organism The question represents a fundamental challenge in developmental biology Researchers are now seeking to understand in greater detail the genetic factors that regulate cell differentiation in early development Put simply stem cells are self renewing unspecialized cells that can give rise to multiple types all of specialized cells of the body The process by which dividing unspecialized cells are equipped to perform specific functions muscle contraction or nerve cell communication for example is called differentiation and is fundamental to the development of the mature organism It is now known that stem cells in various forms can be obtained from the embryo the fetus and the adult The report is a review of the state of the science of stem cell research as of June 17 2001 Included in this report is subject matter addressing stem cells from adult fetal tissue and embryonic sources Because so much of the progress made to date was dependent on animal models a significant emphasis is placed on understandings gained from mouse models of development and mouse stem cell research The report also devotes substantial attention to scientific publications on the characterization of specialized cells developed from embryonic stem cells and the plasticity of adult stem cells Both scientific and lay publications use a variety of terms to describe stem cells and their properties For this reason this report adopts a lexicon of terms and it is used consistently throughout In several places in the report discovery timelines are provided The various sources of stem cells are described as are the techniques used to isolate and develop them A comprehensive listing of various stem cell isolation and characterizations is also included In order to ensure the reader is provided information both about the basic biology of stem cells and their therapeutic potential the report contains several chapters focused on particular diseases which might benefit from stem cell research These chapters on the use of hematopoietic stem cells followed by focus features on specific nervous system diseases diabetes heart disease and autoimmune diseases serve merely as examples of the many applications of stem

cells that are being pursued Also included are features that review aspects of stem cells as therapeutic delivery tools for gene therapy and importantly the safety considerations for developing stem cell based therapies

A Report for the Year ... on the Research and Other Activities of the Division of Biology California Institute of Technology. Division of Biology,1997

Science ,1926 **Official Report of Debates** Council of Europe. Parliamentary Assembly,2003 *Report of the Agricultural and Food Research Council* Agricultural and Food Research Council (Great Britain),1991 **Nature** Sir Norman Lockyer,1900 Medical Humanities Review ,2002 *General Report on the Activities of the European Group on Ethics in Science and New Technologies to the European Commission, 1998-2000* European Commission. European Group on Ethics in Science and New Technologies,European Group on Ethics in Science and New Technologies to the European Commission,2001 **Medical Research Council Annual Report** Medical Research Council (Great Britain),2000

Whispering the Techniques of Language: An Mental Quest through **Stem Cell Research Paper Example**

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Table of Contents Stem Cell Research Paper Example

1. Understanding the eBook Stem Cell Research Paper Example
 - The Rise of Digital Reading Stem Cell Research Paper Example
 - Advantages of eBooks Over Traditional Books
2. Identifying Stem Cell Research Paper Example
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Stem Cell Research Paper Example
 - User-Friendly Interface
4. Exploring eBook Recommendations from Stem Cell Research Paper Example
 - Personalized Recommendations
 - Stem Cell Research Paper Example User Reviews and Ratings

- Stem Cell Research Paper Example and Bestseller Lists
- 5. Accessing Stem Cell Research Paper Example Free and Paid eBooks
 - Stem Cell Research Paper Example Public Domain eBooks
 - Stem Cell Research Paper Example eBook Subscription Services
 - Stem Cell Research Paper Example Budget-Friendly Options
- 6. Navigating Stem Cell Research Paper Example eBook Formats
 - ePub, PDF, MOBI, and More
 - Stem Cell Research Paper Example Compatibility with Devices
 - Stem Cell Research Paper Example Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Stem Cell Research Paper Example
 - Highlighting and Note-Taking Stem Cell Research Paper Example
 - Interactive Elements Stem Cell Research Paper Example
- 8. Staying Engaged with Stem Cell Research Paper Example
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Stem Cell Research Paper Example
- 9. Balancing eBooks and Physical Books Stem Cell Research Paper Example
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Stem Cell Research Paper Example
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Stem Cell Research Paper Example
 - Setting Reading Goals Stem Cell Research Paper Example
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Stem Cell Research Paper Example
 - Fact-Checking eBook Content of Stem Cell Research Paper Example
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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