

ETHICS

The ISSCR Guidelines for Human Embryonic Stem Cell Research

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Human embryonic stem (ES) cells are valuable for biomedicine, but differing cultural, political, legal, and religious perspectives are potential barriers to international collaboration in this fledgling field. Recognizing the need for scientists to act transparently, to serve the public interest, and to preserve public trust, the International Society for Stem Cell Research (ISSCR) convened a task force to formulate guidelines for human ES cell research. The ISSCR guidelines were written by scientists, ethicists, and legal experts from 14 countries (1).

The ISSCR guidelines encompass the core values put forth by the Committee on Guidelines for Human ES Cell Research of the U.S. National Academy of Sciences (U.S. NAS) (2) and the Regulations of the California Institute for Regenerative Medicine (3), and acknowledge thoughtful governmental regulations already in place in several countries, particularly that of the Human Fertilisation and Embryology Authority of the United Kingdom (4). The ISSCR is the principal scientific society for stem cell scientists and transcends institutional, regional, and national political boundaries.

The ISSCR guidelines focus on research pertinent to derivation and use of pluripotent human stem cell lines and are not meant to encompass somatic (adult) stem cell research or human embryo or fetal tissue research. The ISSCR guidelines aim to facilitate international collaboration by encouraging investigators and institutions to adhere to a uniform set of practices. The ISSCR guidelines are subservient to all applicable laws and regulations of the country or region where the actual research takes place.

Major Principles

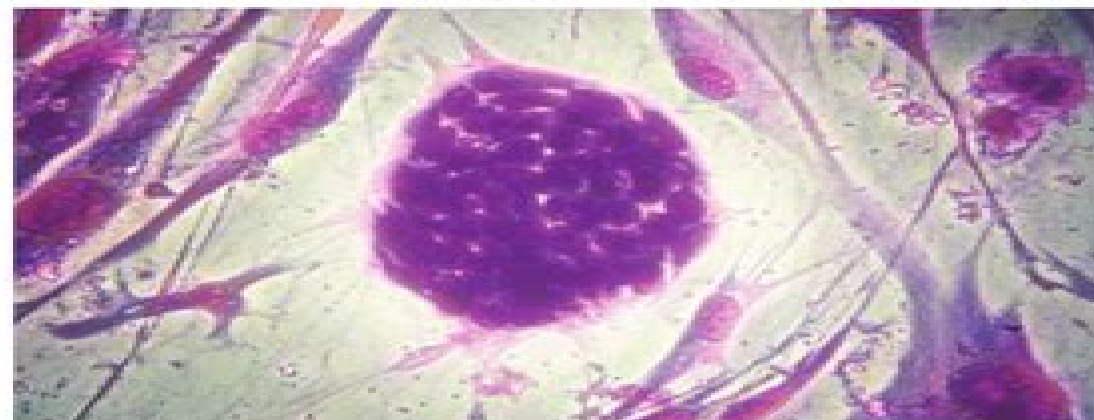
Call for oversight. Biomedical research is already subject to regulation and oversight. However, because human ES cell research raises unique and sensitive issues and requires specialized expertise to judge both scientific merit and ethical propriety, the ISSCR guidelines call for a specialized oversight process to complement existing institutional review

The International Society for Stem Cell Research describes major principles that should guide ethical stem cell research.

boards. In contrast to the U.S. NAS guidelines, which stipulated that institutions engaged in human ES cell research should form an ES cell research oversight (ESCRO) committee, the ISSCR guidelines do not specify the precise form of stem cell research oversight (SCRO). The ISSCR guidelines specify the key elements of a single rigorous review at the institutional, regional, national, or international level, thereby eliminating redundancy and allowing flexibility for varied oversight mechanisms in different countries.

Permissible and impermissible research. The ISSCR guidelines prohibit (i) all experiments that lack a compelling scientific rationale or raise strong shared ethical concerns—in particular human reproductive cloning; (ii) in vitro culture of human embryos beyond 14 days or the formation of the primitive embryonic streak; and (iii) the interbreeding of animals likely to harbor human gametes.

The “14-day limit,” first articulated in 1984 by the Warnock committee of the U. K. Human Fertilisation and Embryology Authority (5), is widely accepted by researchers in the human stem cell and fertility fields. It recognizes the significant biological distinctions between the earliest human embryos,



How can ethical principles for research encompass cultural differences? Shown is a human embryonic stem cell colony, on a background of mouse embryonic fibroblast feeder cells, stained with Wright-Giemsa to highlight the individual cells of the colony.

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Guidelines For Human Embryonic Stem Cell Research



United States

Guidelines For Human Embryonic Stem Cell Research:

Guidelines for Human Embryonic Stem Cell Research Bls,2005-08-15 Guidelines for Human Embryonic Stem Cell Research ,2010-03-19 Since 1998 the volume of research being conducted using human embryonic stem hES cells has expanded primarily using private funds because of restrictions on the use of federal funds for such research Given limited federal involvement privately funded hES cell research has thus far been carried out under a patchwork of existing regulations many of which were not designed with this research specifically in mind In addition hES cell research touches on many ethical legal scientific and policy issues that are of concern to the public This report provides guidelines for the conduct of hES cell research to address both ethical and scientific concerns The guidelines are intended to enhance the integrity of privately funded hES cell research by encouraging responsible practices in the conduct of that research *2008 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,2008-10-23 In 2005 the National Academies released the report *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 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 the Committee identified issues that warranted revision and this book addresses those issues in a second set of amendments Most importantly this book addresses new scientific developments in reprogramming of somatic cells to pluripotency by adding a new section and revising other relevant sections of the Guidelines Guidelines for Human Embryonic Stem Cell Research ,2005 **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,Committee on Guidelines for Human Embryonic Stem Cell Research,2005-09-15 Since 1998 the volume of research being conducted using human embryonic stem hES cells has expanded primarily using private funds because of restrictions on the use of federal funds for such research Given limited federal involvement privately funded hES cell research has thus far been carried out under a patchwork of existing regulations many of which were not designed with this research specifically in mind In addition hES cell research touches on many ethical legal scientific and policy issues that are of concern to the public This report provides guidelines for the conduct of hES cell research to address both ethical and scientific concerns The guidelines are intended to enhance the integrity of privately funded hES cell research by encouraging responsible practices in the conduct of that research 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 *Guidelines for Human Embryonic Stem Cell Research*, 2005

2007 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, 2007-05-30 In 2005 the National Academies released the report *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 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 This letter report is the committee's first set of amendments to the Guidelines and clarifies earlier recommendations and conclusions including the criteria for determining which stem cell lines it is acceptable to use Future deliberations of the committee will address items for which additional information gathering and more extensive debate and discussion will be necessary 2008 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, 2008-11-23 In 2005 the National Academies released the report *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 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 the Committee identified issues that warranted revision and this book addresses those issues in a second set of amendments Most importantly this book addresses new scientific developments in reprogramming of somatic cells to pluripotency by adding a new section and revising other relevant sections of the Guidelines *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* ,2010 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 ,2010 **United States Code** United States,2018 **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 multicellular 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 **Stem Cell Anthology** ,2009-10-22 The fields of stem cell research regenerative medicine tissue engineering and cloning are very closely related It is important for researchers in each of these disciplines to be aware of the methods and principles in the others Elsevier publishes some of the highest individual references in these areas Bringing together the principles applications and basic understanding in these related areas of science will provide a new reference which is serve the needs of a variety of researchers Edited by Dr Bruce Carlson Stem Cell Anthology will be valuable to researchers and students who need to save time and link concepts to principles applications and methods in order to work more effectively

and see links for potential collaborations Includes a collection of chapters by leaders in the stem cell field including the first researchers to discover iPS cells and multiple Nobel Laureates Provides the most detailed introduction to basic properties of major embryonic and adult stem cells by highlighting breakthrough discoveries in the nervous system spinal cord heart pancreas epidermis musculo skeletal retina leading areas of stem cell research in human application Details technical laboratory set up for practitioners technicians and administrators

Handbook of Stem Cells Anthony Atala, Robert Lanza, 2012-12-31 New discoveries in the field of stem cells increasingly dominate the news and scientific literature revealing an avalanche of new knowledge and research tools that are producing therapies for cancer heart disease diabetes and a wide variety of other diseases that afflict humanity The Handbook of Stem Cells integrates this exciting area of life science combining in two volumes the requisites for a general understanding of adult and embryonic stem cells Organized in two volumes entitled Pluripotent Stem Cells and Cell Biology and Adult and Fetal Stem Cells this work contains contributions from the world's experts in stem cell research to provide a description of the tools methods and experimental protocols needed to study and characterize stem cells and progenitor populations as well as the latest information of what is known about each specific organ system Provides comprehensive coverage on this highly topical subject Contains contributions by the foremost authorities and premiere names in the field of stem cell research Companion website <http://booksite.elsevier.com/9780123859426> contains over 250 color figures in presentation format

United States Code: 2006 Edition

Supplement IV, Code of Federal Regulations, 2009

The Promise of Human Embryonic Stem Cell Research United States. Congress. Senate. Committee on Appropriations. Subcommittee on Departments of Labor, Health and Human Services, Education, and Related Agencies, 2011

Stem Cells Handbook Stewart Sell, 2013-08-16 This book discusses critical areas of progress in stem cell research including the most recent research and applications of pluripotent embryonic cells induced pluripotent cells oligopotent tissue stem cells and cancer stem cells The text covers basic knowledge of stem cell biology stem cell ethics development of techniques for applying stem cell therapy the technology of obtaining appropriate cells for transplantation as well as the role of stem cells in cancer and how therapy may be directed to cancer stem cells This new volume is essential reading for all scientists currently in the field or allied research areas and those for those graduate students who envision a career in stem cells

United States Code United States, 1994

Enjoying the Song of Appearance: An Mental Symphony within **Guidelines For Human Embryonic Stem Cell Research**

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