

STEM CELLS

Controversy at the frontiers of science



Elizabeth Finkel

Stem Cells Controversy At The Frontiers Of Science

**Graeme T. Laurie, Shawn
Harmon, Edward Dove**



Stem Cells Controversy At The Frontiers Of Science:

Stem Cells Elizabeth Finkel, 2012-07-01 Stem Cells Controversy at the Frontiers of Science provides a clear explanation of just what stem cells are what the subtle differences are in the cells upon which most debate is focused and why they are important for medical research It explains how Australia found itself in the forefront of stem cell research leading even the United States But what is the story behind the headlines Are stem cells the potential miracle cure all that researchers would have us believe solving problems from the search for donor organs to curing diseases such as Parkinsons and even cancer and dementia And even if all the promises can be fulfilled is it worth opening the potential Pandora s box of ethical problems What is motivating the lobby groups for and against Dr Elizabeth Finkel takes a clear eyed look at the science the ethics the politics the economics the spin and the future Stem Cells Melinda Bonnie Fagan, 2021-05-27 What is a stem cell The answer is seemingly obvious a cell that is also a stem or point of origin for something else Upon closer examination however this combination of ideas leads directly to fundamental questions about biological development A cell is a basic category of living thing a fundamental unit of life A stem is a site of growth an active source that supports or gives rise to something else Both concepts are deeply rooted in biological thought with rich and complex histories The idea of a stem cell unites them but the union is neither simple nor straightforward This book traces the origins of the stem cell concept its use in stem cell research today and implications of the idea for stem cell experiments their concrete results and hoped for clinical advances

Stem Cell Biology and Tissue Engineering in Dental Sciences Ajaykumar Vishwakarma, Paul Sharpe, Songtao Shi, Murugan Ramalingam, 2014-11-05 Stem Cell Biology and Tissue Engineering in Dental Sciences bridges the gap left by many tissue engineering and stem cell biology titles to highlight the significance of translational research in this field in the medical sciences It compiles basic developmental biology with keen focus on cell and matrix biology stem cells with relevance to tissue engineering biomaterials including nanotechnology and current applications in various disciplines of dental sciences viz periodontology endodontics oral craniofacial surgery dental implantology orthodontics dentofacial orthopedics organ engineering and transplant medicine In addition it covers research ethics laws and industrial pitfalls that are of particular importance for the future production of tissue constructs Tissue Engineering is an interdisciplinary field of biomedical research which combines life engineering and materials sciences to progress the maintenance repair and replacement of diseased and damaged tissues This ever emerging area of research applies an understanding of normal tissue physiology to develop novel biomaterial acellular and cell based technologies for clinical and non clinical applications As evident in numerous medical disciplines tissue engineering strategies are now being increasingly developed and evaluated as potential routine therapies for oral and craniofacial tissue repair and regeneration Diligently covers all the aspects related to stem cell biology and tissue engineering in dental sciences basic science research clinical application and commercialization Provides detailed descriptions of new modern technologies fabrication techniques employed in the fields of stem cells biomaterials and

tissue engineering research including details of latest advances in nanotechnology Includes a description of stem cell biology with details focused on oral and craniofacial stem cells and their potential research application throughout medicine Print book is available and black and white and the ebook is in full color *The Moral, Social, and Commercial Imperatives of Genetic Testing and Screening* Michela Betta, 2007-06-24 In the past people were classified as being healthy or sick With genetic testing and screening adults might be healthy predisposed to an illness probably at risk at risk or carriers of certain risks Genetic testing and screening hits another dramatic note when cells and embryos are tested and subsequently altered to hit targets of perfection This insightful book combines theory and social practice drawing on a range of disciplines and presenting contrasting viewpoints **The SAGE Encyclopedia of Stem Cell Research** Eric E. Bouhassira, 2015-06-15 The SAGE Encyclopedia of Stem Cell Research Second Edition is filled with new procedures and exciting medical breakthroughs including executive orders from the Obama administration reversing barriers to research imposed under the Bush administration court rulings impacting NIH funding of research based on human embryonic stem cells edicts by the Papacy and other religious leaders and the first success in cloning human stem cells Stem cell biology is clearly fueling excitement and potential in traditional areas of developmental biology and in the field of regenerative medicine where they are believed to hold much promise in addressing any number of intractable medical conditions This updated second edition encyclopedia will expand on information that was given in the first edition and present more than 270 new and updated articles that explore major topics in ways accessible to nonscientists thus bringing readers up to date with where stem cell biology stands today including new and evolving ethical religious legal social and political perspectives This second edition reference work will serve as a universal resource for all public and academic libraries It is an excellent foundation for anyone who is interested in the subject area of stem cell biology Key Features Reader s Guide Further Readings Cross References Chronology Resource Guide Index A Glossary will elucidate stem cell terminology for the nonscientist Statistics and selected reprints of major journal articles that pertain to milestones achieved in stem cell research Documents from Congressional Hearings on stem cells and cloning Reports to the President s Council on Bioethics and more On the Frontier of Science Leah Ceccarelli, 2013-11-01 The frontier of science is a metaphor that has become ubiquitous in American rhetoric from its first appearance in the public address of early twentieth century American intellectuals and politicians who aligned a mythic national identity with scientific research to its more recent use in scientists arguments in favor of increased research funding Here Leah Ceccarelli explores what is selected and what is deflected when this metaphor is deployed its effects on those who use it and what rhetorical moves are made by those who try to counter its appeal In her research Ceccarelli discovers that the frontier of science evokes a scientist who is typically male a risk taker an adventurous loner someone separated from a public that both envies and distrusts him with a manifest destiny to penetrate the unknown It conjures a competitive desire to claim the riches of a new territory before others can do the same Closely reading the public address of scientists and

politicians and the reception of their audiences this book shows how the frontier of science metaphor constrains American speakers helping to guide the ends of scientific research in particular ways and sometimes blocking scientists from attaining the very goals they set out to achieve

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

Conspiracies and Conspiracy Theories in American History Christopher R. Fee, Jeffrey B. Webb, 2019-05-24 This up to date introduction to the complex world of conspiracies and conspiracy theories provides insight into why millions of people are so ready to believe the worst about our political legal religious and financial institutions Unsupported theories provide simple explanations for catastrophes that are otherwise difficult to understand from the U S Civil War to the Stock Market Crash of 1929 to the terrorist attacks on the World Trade Center in New York Ideas about shadowy networks that operate behind a cloak of secrecy including real organizations like the CIA and the Mafia and imagined ones like the Illuminati additionally provide a way for people to criticize prevailing political and economic arrangements while for society s disadvantaged and forgotten groups conspiracy theories make their suffering and alienation comprehensible and provide a focal point for their economic or political frustrations These volumes detail the highly controversial and influential phenomena of conspiracies and conspiracy theories in American society Through interpretive essays and factual accounts of various people organizations and ideas the reader will gain a much greater appreciation for a set of beliefs about political scheming covert intelligence gathering and criminal rings that has held its grip on the minds of millions of American citizens and encouraged them to believe that the conspiracies may run deeper and with a global reach

The Best Australian Science Writing 2011 Stephen Pincock, 2011 Annotation Dynamic and informative this anthology examines science topics both macrocosmic and microscopic Featuring both young unpublished writers as well as renowned Australian writers and thinkers such as Paul Davies Tim Flannery Anna Funder and Germaine Greer this account includes insightful and powerful selections of important writing about science and nature

The Curious Country Leigh Dayton, 2013-12-03 By definition scientists are an inquisitive lot But what are the scientific curiosities and concerns on the minds of Australians What worries them baffles them and sets their curiosity meter to 10 out of 10 To find out the Office of the Chief Scientist OCS took the nation s intellectual temperature surveying 1186 Australians men and women aged 18 to 65 from all education levels and locations around Australia The results frame this book a collection of essays covering the diverse areas of science Australians are curious about Edited by eminent science writer Leigh Dayton and including a foreword from Australia s Chief Scientist Ian Chubb The collection covers a range of issues including food and farming technology environmental upheaval health fuel and energy technology and space exploration

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 **The Best Australian Science Writing 2013**

Jane McCredie, Natasha Michell, 2013-11-01 Could the dodo make a comeback What does science tell us about the sex in Fifty Shades of Grey Is giving up meat really the greenest option Can you use tweets to spot a psychopath Do birds make art What do the Cold War and climate science have in common And can a psychologist interpret your farts The Best Australian Science Writing 2013 brings together great writing about life and the universe including contributions from poets and psychologists comedians and climate commentators neuroscientists and novelists star gazers and science journalists With a foreword by superstar comedian musician and self confessed science nerd Tim Minchin this provocative collection is chock full of intrigue curiosity and controversy Read this Your brain will love you for it Stem Cells, 2012 Fast moving and ever changing stem cell science and research presents ongoing ethical and legal challenges in many countries Each development and innovation throws up new challenges This is the case even where new developments initially seem to solve old dilemmas Sometimes it becomes evident that new science does not in fact solve old problems and for that reason the ethical issues remain In recognition of this this book presents innovative and creative analyses of a range of ethical and legal challenges raised by stem cell research and its potential and actual application The editors of this collection have brought together experts from ethics and law to bring fresh perspectives on the use of and research on stem cells The chapters in this collection range across a number of different issues in the debate on stem cells from the ethical dilemmas of conducting stem cell research to those of the clinical application of stem cell technology Each chapter gives an in depth and comprehensive

analysis of the ethical or legal issues at stake The early chapters give engaging new expositions on the permissibility of using embryos in stem cell research in particular challenging our views about how we view and construct the embryo in debates regarding stem cells Later chapters move on to actual and potential clinical uses of stem cells and present novel arguments about these

The Best Australian Science Writing 2015 Bianca Nogrady, 2015-11-01 The annual collection celebrating the finest Australian science writing of the year How does dust connect the cosmos with our bed sheets Why do lobsters do the Mexican Wave backwards And what makes us feel wetness when there s no such thing as wet nerve receptors Now in its fifth year The Best Australian Science Writing 2015 draws on the knowledge and insight of Australia s brightest thinkers in examining the world around us From our obsession with Mars to the mating habits of fish this lively collection covers a range of topics and delights in challenging our perceptions of the planet we think we know

Scientific and Technical Terms in Bioengineering and Biological Engineering Megh R. Goyal, 2018-01-03 This immensely valuable book provides a comprehensive easy to understand and up to date glossary of technical and scientific terms used in the fields of bioengineering and biotechnology including terms used in agricultural sciences The volume also includes terms for plants animals and humans making it a unique complete and easily accessible reference

Scientific and Technical Terms in Bioengineering and Biological Engineering opens with an introduction to bioengineering and biotechnology and presents an informative timeline covering the important developments and events in the fields dating from 7000 AD to the present and it even makes predictions for developments up the year 2050 From ab initio gene prediction to zymogen and from agrobacterium to zoonosis this volume provides concise definitions for over 5400 specialized terms peculiar to the fields of bioengineering and biotechnology including agricultural sciences The use of consistent terminology is critical in presenting clear and meaningful information and this helpful reference manual will be essential for graduate and undergraduate students of biomedical engineering biotechnology nanotechnology nursing and medicine and health sciences as well as for professionals who work with medicine and health sciences

Genome Generation Elizabeth Finkel, 2012-01-01 The year 2001 marked more than just the beginning of Stanley Kubrick s Space Odyssey it marked the beginning of the genome era That was the year scientists first read the 3 billion letters of DNA that make up the human genome This was followed by a veritable Noah s Ark of genomes sponges and worms dogs and cows rice and wheat chimps and elephants 180 creatures aboard so far So what have we learned from all this How has it changed the way we practise medicine grow crops and breed livestock What have we learned about evolution These are the questions science writer and molecular biologist Elizabeth Finkel asked herself four years ago To find the answers she travelled the science frontier from Botswana to Boston from Warracknabeal to Mexico and tracked down scientists working in the field Their stories told here paint the picture of what it means to be part of the genome generation The Genome Generation is absolutely riveting These tales from the frontier are a must read for everyone who wishes to understand our past the logic of evolution or take a peep into our exciting future at the

creation of super plants through digital agriculture R A Mashelkar CSIR Bhatnagar Fellow and India President Global Research Alliance

Battleground: Science and Technology Peter H. Denton, Sal Restivo, 2008-10-30 The modern world is filled with debate and controversy and science and technology the most characteristic features of the modern world are not immune Science and technology are implicated in many if not all of the issues troubles and problems students are likely to come across in their classes and in their everyday lives Science and technology serve as a primary pathway to understanding front page headlines on everything from war to AIDS and from oil exploration to global warming Battleground Science and Technology examines the most hot button issues involving science and technology and provides a balanced assessment of the arguments on all sides of the often strident debates The approximately 100 issues examined in Battleground Science and Technology include topics in the brain sciences including the controversies over the cause of autism and the reliability of memory as well as the debates over parapsychology debates surrounding information technology such as only privacy the impact of video games on social behavior and the advent of virtual reality the complexity over drugs and medications such as the testing of the efficacy of medications the war on recreational drugs and the costs of pharmaceutical research and hot button topics that are constantly in the news such as evolution and creationism DNA testing stem cell research and genetically modified organisms Each entry provides a list of accessible resources useful for further research

Contemporary Debates in Bioethics Arthur L. Caplan, Robert Arp, 2013-09-10 Contemporary Debates in Bioethics features a timely collection of highly readable debate style arguments contributed by many of today's top bioethics scholars focusing on core bioethical concerns of the twenty first century Written in an engaging debate style format for accessibility to non specialists Features general introductions to each topic that precede scholarly debates Presents the latest cutting edge thoughts on relevant bioethics ideas arguments and debates

Catholic Bioethics and the Gift of Human Life, 2nd Edition William May, 2008-07-25 In this revision of his already classic text William May shows us once again the wisdom of the Catholic Church's moral tradition in its application to contemporary bioethics Illuminating and engaging and with the attention to nuance that marks all of May's writing Edward J Furton M A Ph D Ethicist and Director of Publications The National Catholic Bioethics Center With so much bioethical thinking supporting the culture of death I can think of no better champion of a culture of life than Professor William E May Professor May has given us a book which is useful not only for its masterful summery of the moral magisterium on bioethics but also for its treatment of such issues as contraception artificial reproduction the care of the dying human experimentation and the definition of death and organ transplants Dr Mark S Latkovic Associate Professor of Moral Theology Sacred Heart Major Seminary What the Church teaches and why on issues of euthanasia in vitro fertilization genetic counseling assisted suicide living wills persistent vegetative state organ transplants and more

Mason and McCall Smith's Law and Medical Ethics Graeme T. Laurie, Shawn Harmon, Edward Dove, 2019 This classic textbook has provided students of medical law and ethics with a framework for exploring this fascinating subject

for over 30 years Providing coverage of all of the topics found on medical law courses it gives an overview of the inter relationship between ethical medical practice and the law Medical law is significantly shaped by the courts and as such this book provides extensive coverage of recent judicial decisions as well as statutory developments The new edition continues to evolve to reflect changes in the law and shifting ethical opinions

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