

B2 - CELLS DIVISION 2.4 Stem cell dilemma

Aiming for Grade 4

Below are some arguments. State which are true or false for arguments FOR the use of stem cells.

Stem cells use the same genes as the adult so are less likely to be rejected. **TRUE/FALSE**

Stem cells could be used to cure spinal injuries. **TRUE/FALSE**

It may be possible to grow new body parts such as retinas following stem cell research. **TRUE/FALSE**

Immunosuppressant drugs will not be needed for new body parts. **TRUE/FALSE**

Embryonic stem cells can be extracted from many tissues and can be used in place of adult stem cells. **TRUE/FALSE**

List the arguments against the use of stem cells in the treatment of medical conditions

Stem cell research is expensive and the money spent on could be better used elsewhere for medical benefits to the whole population. **TRUE/FALSE**

They reproduce slowly so there is little risk of cancer. **TRUE/FALSE**

Diabetes can be treated without drugs so stem cell research is not required. **TRUE/FALSE**

Adult stem cells could be infected with viruses. **TRUE/FALSE**

Aiming for Grade 6

What are the medical conditions that therapeutic cloning can be used for?

1. Spinal cord injuries
2. Diabetes
3. Heart after heart attack damage
4. Eyesight if the blind
5. Damaged bone and cartilage

There are many ethical and religious objections against stem cells.
Which do you agree or disagree with?

Embryos cannot give permission for their own use. **AGREE/DISAGREE**

Life begins at conception. Destruction of this is morally unacceptable. **AGREE/DISAGREE**

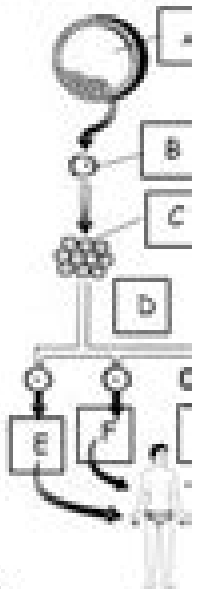
An embryonic stem cell is not a potential human being, particularly if there was never an intention to implant it. **AGREE/DISAGREE**

Humans cannot interfere with the process of reproduction. **AGREE/DISAGREE**

Stem cells may cause cancer. **AGREE/DISAGREE**
Your opinions. There are no right or wrong answers

Aim

Add the correct



What do you think research? Why

You should use
against stem cell
argument and if
opinion

Biology B2 14th May 2014 Mark Scheme

**Valentin Fuster, Robert A.
Harrington, Jagat Narula, Zubin J. Eapen**

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Recent Advances in $\gamma\delta$ T Cell Biology: New Ligands, New Functions, and New Translational Perspectives Dieter Kabelitz, Julie Dechanet-Merville, 2016-02-16 Gamma delta T cells are a small subset of T lymphocytes in the peripheral circulation but constitute a major T cell population at other anatomical localizations such as the epithelial tissues. In contrast to conventional T cells, the available number of germline genes coding for T cell receptor TCR variable elements of T cells is very small. Moreover, there is a preferential localization of T cells expressing given Vgamma and Vdelta genes in certain tissues. In humans, T cells expressing the Vg9Vd2 encoded TCR account for anywhere between 50 and 95% of peripheral blood T cells, whereas cells expressing non Vd2 genes dominate in mucosal tissues. In mice, there is an ordered appearance of T cell waves during embryonic development resulting in preferential localization of T cells expressing distinct Vgamma/Vdelta genes in the skin, the reproductive organs or gut epithelia. The major function of T cells resides in local immunosurveillance and immune defense against infection and malignancy. This is supported by the identification of ligands that are selectively recognized by the TCR. As an example, human Vgamma9Vdelta2 T cells recognize phosphorylated metabolites, phosphoantigens that are secreted by many pathogens but can also be overproduced by tumor cells, providing a basis for a role of these T cells in both anti-infective and anti-tumor immunity. Similarly, the recognition of endothelial protein C receptor by human non Vdelta2 T cells has recently been identified to provide a link for the role for such T cells in immunity against epithelial tumor cells and cytomegalovirus infected endothelial cells. In addition to classical functions such as cytokine production and cytotoxicity, recent studies suggest that subsets of T cells can exert additional functions such as regulatory activity and quite surprisingly, professional antigen presenting capacity. It is currently not well known how this tremendous extent of functional plasticity is regulated and what is the extent of TCR ligand diversity. Due to their non-MHC restricted recognition of unusual stress associated ligands, T cells have raised great interest as to their potential translational application in cell-based immunotherapy. Topics of this Research Focus include: Molecular insights into the activation and differentiation requirements of T cells; role of pyrophosphates and butyrophilin molecules for the activation of human T cells; role of T cells in tumor immunity and in other infectious and non-infectious diseases and many others. We are most grateful to all colleagues who agreed to write a manuscript. Thanks to their contributions, this E-book presents an up-to-date overview on many facets of the still exciting T cells. Dieter Kabelitz, Julie Dechanet-Merville

Chapterwise Topicwise Solved Papers Biology for Medical Entrances 2020 Sudhakar Banerjee, 2019-10-19 For cracking any competitive exam, one needs to have clear guidance, right kind of study material, and thorough practice. When the preparation is done for the exams like JEE Main and NEET, one needs to have a clear concept about each and every topic and understanding of the examination pattern are most important things which can be done by using the good collection of Previous Years Solved Papers. Chapterwise Topicwise Solved Papers BIOLOGY for Medical Entrances is a master collection of exams questions to practice for NEET 2020 which

have been consciously revised as per the latest pattern of exam It carries 15 Years of Solved Papers 2019 2005 in both Chapterwise and topicwise manner by giving the full coverage to syllabus This book is divided into parts based on Class XI and XII NCERT syllabus covering each topic This book gives the complete coverage of Questions asked in NEET CBSE AIPMT AIIMS JIPMER and BVP Manipal UPCPMT etc Thorough practice done from this book will the candidates to move a step towards their success

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3 Chapterwise division and Topical Categorization is done according NCERT NEET Syllabus

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It also helps aspirants by giving clear idea regarding the chapter weightage from the beginning of their preparation

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NEET Solved Paper 2021 NEET Solved Paper 2022

Legal Protection for Computer-Implemented Inventions Sabine Kruspig,Claudia Schwarz,2016-04-24

As a result of the incorporation of computer software into countless commercial and industrial products the patentability of software has become a vital issue in intellectual property law

This indispensable book provides an overview on the current status of computer implemented inventions in patent law across Europe and major jurisdictions worldwide

A hugely practical field research tool with guidance based on case law it examines the major hurdles in each particular country and describes the best practice to be adopted

Clearly showing how enforceable software patent applications can be competitively drafted and how a patent portfolio for computer implemented inventions

can be established in several countries without spending money unnecessarily on problematic examination proceedings this book covers such issues and topics as the following claim categories for patent applications sufficient level of abstraction breadth of the claimed invention fundamental terms of computing and terminological traps probability for patents dependent on software application areas and patents in core areas of computing With separate chapters for the key countries Germany the United Kingdom France the United States China Korea Japan India and the European Patent Office the legal situation for computer implemented inventions in each country or region this book includes guidance on prosecution under national law analyses of relevant court decisions practice checklists and an outlook on future developments The authors describe claim formulation based on actual cases and on principles of computer science in order to show what might be or might not be patentable in each jurisdiction With this incomparable resource patent attorneys and patent professionals in companies will get a basis for making decisions about the most appropriate jurisdictions in which to file patent applications This book will also be of great value to computer professionals who are affected by the protection of software or who are actively involved in the protection of software by patent law

Feedback Loops Andrew Wells Garnar,Ashley Shew,2020-11-03 In a world of information technologies genetic engineering controversies about established science and the mysteries of quantum physics it is at once seemingly impossible and absolutely vital to find ways to make sense of how science technology and society connect In Feedback Loops Pragmatism about Science Technology editors Andrew Wells Garnar and Ashley Shew bring together original writing from philosophers and science and technology studies scholars to provide novel ways of rethinking the relationships among science technology education and society Through critiquing and exploring the work of philosopher of science and technology Joseph C Pitt the authors featured in this volume investigate the complexities of contemporary technoscience writing on topics ranging from super computing to pedagogy engineering to biotechnology patents and scientific instruments to disability studies Taken together these chapters develop an argument about the necessity of using pragmatism to foster a more productive relationship among science technology and society

A Silent Fire Shilpa Ravella,2022-10-11 Fascinating Ravella s writing breathes life into biological functions Grace Wade New Scientist A riveting investigation of inflammation the hidden force at the heart of modern disease and how we can prevent treat or even reverse it Inflammation is the body s ancestral response to its greatest threats the first line of defense it deploys against injury and foreign pathogens But as the threats we face have evolved new science is uncovering how inflammation may also turn against us simmering underneath the surface of leading killers from heart disease and cancer to depression aging and mysterious autoimmune conditions In A Silent Fire gastroenterologist Shilpa Ravella investigates hidden inflammation s emerging role as a common root of modern disease and how we can control it We meet the visionary nineteenth century pathologist who laid the foundation for our modern understanding of inflammation the eccentric Russian zoologist who discovered one of the cells central to our immune system and the dedicated researchers advancing the frontiers of medical

and nutritional science today With fascinating case studies Ravella reveals how we can reform our relationships with food and our microbiomes to benefit our own health and the planet s Synthesizing medical history cutting edge research and innovative clinical practice Ravella unveils inflammation as one potential basis for a unifying theory of disease A paradigm shifting understanding of one of the most mysterious buzzed about topics in medicine and nutrition A Silent Fire shows us how to live not only long but well *Hurst's the Heart, 14th Edition: Two Volume Set* Valentin Fuster,Robert A.

Harrington,Jagat Narula,Zubin J. Eapen,2017-03-22 Cardiology s cornerstone text thoroughly updated to reflect the latest clinical perspectives and cutting edge topics Hailed for its authority currency and ability to translate the latest technical and clinical advances into clinical application Hurst s The Heart is the field s landmark text and cardiology s longest continuously published reference text A previous edition of this trusted classic was described by Doody s as an outstanding choice for those who strive for a firm foundation in cardiovascular medicine as well as an up to date and user friendly source that addresses every discipline in the field Readers will find succinct visually appealing summaries of all the major new trials and guidelines along with tips for optimizing outcomes and health quality The Fourteenth Edition has been completely updated to reflect the latest technical therapeutic and clinical advances while still maintaining a strong focus on patient care Other enhancements include the addition of textual features such as Practice Points Common Clinical Questions and an increased number of the acclaimed Hurst s diagrams NEW TO THIS EDITION Section on Metabolic Disorders and Cardiovascular Disease Cigarette Smoking and Cardiovascular Disease Enhanced by more than 1 500 full color illustrations and more than 500 tables Brand new chapters include Arrhythmogenic Cardiomyopathy Ischemic Mitral Regurgitation Degenerative Mitral Valve Disease Left Ventricular Noncompaction Evaluation and Management of Acute Heart Failure Carotid Artery Stenting Race Ethnicity and Cardiovascular disease The only comprehensive cardiology reference to publish every 2 5 years to allow for reporting of the latest trials and guidelines Montana's Pioneer Naturalist George M. Dennison,2016-09-21 A naturalist on Montana s academic frontier passionate conservationist Morton J Elrod was instrumental in establishing the Department of Biology at the University of Montana as well as Glacier National Park and the National Bison Range In Montana s Pioneer Naturalist the first in depth assessment of Elrod s career George M Dennison reveals how one man helped to shape the scholarly study of nature and its institutionalization in the West at the turn of the century Elrod moved to Missoula in 1897 just four years after the state university s founding and participated in virtually every aspect of university life for almost forty years To reveal the depths of this pioneer scientist s influence on the growth of his university his state and the academic fields he worked in author George M Dennison delves into state and university archives including Elrod s personal papers Although Elrod was an active participant in bison conservation and the growth of the National Park Naturalist Service much of his work focused on Flathead Lake where he surveyed local life forms and initiated the university s biological station one of the first of its kind in the United States Yet at heart Elrod was an educator who desired to foster in his students a love of

nature which he said should give health to any one and supply knowledge of greatest value either to the individual or to society or to both In this biography of a prominent scientist now almost forgotten Dennison longtime president of the University of Montana demonstrates how Elrod s scholarship and philosophy regarding science and nature made him one of Montana s most distinguished naturalists conservationists and educators

Systems Medicine ,2020-08-24 Technological advances in generated molecular and cell biological data are transforming biomedical research Sequencing multi omics and imaging technologies are likely to have deep impact on the future of medical practice In parallel to technological developments methodologies to gather integrate visualize and analyze heterogeneous and large scale data sets are needed to develop new approaches for diagnosis prognosis and therapy Systems Medicine Integrative Qualitative and Computational Approaches is an innovative interdisciplinary and integrative approach that extends the concept of systems biology and the unprecedented insights that computational methods and mathematical modeling offer of the interactions and network behavior of complex biological systems to novel clinically relevant applications for the design of more successful prognostic diagnostic and therapeutic approaches This 3 volume work features 132 entries from renowned experts in the fields and covers the tools methods algorithms and data analysis workflows used for integrating and analyzing multi dimensional data routinely generated in clinical settings with the aim of providing medical practitioners with robust clinical decision support systems Importantly the work delves into the applications of systems medicine in areas such as tumor systems biology metabolic and cardiovascular diseases as well as immunology and infectious diseases amongst others This is a fundamental resource for biomedical students and researchers as well as medical practitioners who need to need to adopt advances in computational tools and methods into the clinical practice Encyclopedic coverage one stop resource for access to information written by world leading scholars in the field of Systems Biology and Systems Medicine with easy cross referencing of related articles to promote understanding and further research Authoritative the whole work is authored and edited by recognized experts in the field with a range of different expertise ensuring a high quality standard Digitally innovative Hyperlinked references and further readings cross references and diagrams images will allow readers to easily navigate a wealth of information

Zebrafish Models for Human Disease Studies Liqing Zang,Norihiro Nishimura,Vincenzo Torraca,Yasuhito Shimada,2022-04-04

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