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50 Really Good Topics for Research in the Field of Biology. Biological research has advanced in leaps and bounds, in the past few decades. With the completion of the Human Genome project in April 2003, new tools and techniques have been developed, and are being utilized to study various aspects of biology.

50 Really Good Topics for Research in the Field of Biology ...

Research topics in biology are as varied as the branches and specializations in biology. There exists a plenitude of them, and you are to choose the one most exciting for you. When you are given the freedom to select biology topics for research you may actually have a hard time making your selection.

50+ Biology Research Topics | Remarkable Ideas For Your Papers

Molecular biology topics Molecular biology is a field of biology that studies all the activities and systems at the molecular level. It is a new branch closely related to long-established research fields such as biochemistry, biophysics, and bioorganic chemistry. Below, you can find the list of some interesting biology topics on this subject:

The Best Biology Research Paper Topics 2019

Question: What are some possible topics on biology for a science research paper? Answer: Look under "Molecular biology and genetics topics," "biochemistry" or "ecology for topics which relate to biology or the life sciences. Biology refers to "study of life" so anything which is alive is included under that topic.

100 Science Topics for Research Papers - Owlcation

In order to make your research project stand out you need to come up with a really interesting topic. Here is a selection of 23 ideas on biology. ... Coming up with a unique college biology term paper topic can sometimes be a little tricky. However, don't worry I am hear to provide you with my top 23 topics.

23 Truly Unique Biology Topics For Your Research Paper

Whether you're looking for a research topic for a college paper or an area to specialize in if you're majoring in biology, here are some of the most interesting things going on in the biology world right now. TEK IMAGE/SCIENCE PHOTO LIBRARY/Getty Images 1. CRISPR and Genetic Engineering

10 Most Interesting Biology Research Topics | BestColleges

List of best research paper topics 2020. Having a comprehensive list of topics for research papers might make students think that the most difficult part of work is done. However, research topics still need to do enough research and gather a lot of data and facts from reliable sources in order to complete their research paper.

Summary This book is a definitive overview of the current 'state of the art' in cell biology. It is based on papers presented by leading researchers at the Spanish Society for Cell Biology's XIV Congress - a Congress that strives to achieve scientific excellence. Each participant was asked to prepare a 'mini review' of current and likely future development in their area of research. This book is based on those reviews. As such, it is therefore an analysis of current and future trends. Key Features Contains contributions from some of the world's leading researchers. The book is multidisciplinary, covering almost all topics in cell biology: from basic to applied cell biology, and a wide variety of models: from in vitro to vivo models, ranging from fish to rodents and humans. Each 'mini review' is an easy-read piece, describing the state of the art on a topic with clear language and in a summary format. The mini review format makes the book attractive not only to readers involved in cell biology research and teaching, but also professionals from other disciplines and students. The book takes a truly multidisciplinary approach; it covers a wide array of topics, and the book reflects how cell biology interacts with other disciplines The Editors Jose Becerra is Professor of Cell Biology at the University of Malaga (Spain) since 1989. He has been Dean Secretary, Vice-Dean and Dean of the Faculty of Sciences of Malaga, and is now the Head of the Department of Cell Biology, Genetics and Physiology. From 2001 to 2003 he was the Director of the Andalusian Laboratory of Biology (LAB, Seville), which was converted in

the Andalusian Centre for Developmental Biology (CABD) under his term. He is a member of the Technical Committee of the National Stem Cell Bank since 2007, patron of the Board of Trustees of IMABIS Foundation (Mediterranean Institute for the Advance of Biotechnology and Health Research), coordinator of the Biomaterials and Tissue Engineering Area of the the Biomedical Research Networking Center in Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), and member of the Direction Committee of the CIBER-BBN. Leonor Santos-Ruiz is Senior Researcher of the CIBER-BBN network at the Andalusian Center for Nanomedicine and Biotechnology (BIONAND). She started her career studying the cellular and molecular basis of lower vertebrates' amazing ability for tissue regeneration, with a special attention to bone and spinal cord repair. Readership Cell biology academics and researchers Contents Introduction Dynamics of cell compartments The intracellular trafficking Cell signaling Autophagy, apoptosis and cell homeostasis Cell biology of aging Plant cell biology Methods in cell biology Applied cell biology Cell biology of cancer Cell therapies and tissue engineering Neurodegeneration and cell biology Nanotechnology and cell biology: challenges and opportunities"

Brain disorders, including neurological and neuropsychiatric conditions, represent a challenge for public health systems and society at large. The limited knowledge of their biology hampers the development of diagnostic tools and effective therapeutics. A clear understanding of the mechanisms that underlie the onset and progression of brain disorders is required in order to identify new avenues for therapeutic intervention. Overlapping genetic risk factors across different brain disorders suggest common linkages and pathophysiological mechanisms that underlie brain disorders. Methodological and technological advances are leading to new insights that go beyond traditional hypotheses. Taking account of underlying molecular, cellular and systems biology underlying brain function will play an important role in the classification of brain disorders in future. In this Research Topic, the latest advances in our understanding of biological mechanisms across different brain disorders are presented. The areas covered include developments in neurogenetics, epigenetics, plasticity, glial cell biology, neuroimmune interactions and new technologies associated with the study of brain function. Examples of how understanding of biological mechanisms are translating into research strategies that aim to advance diagnoses and treatment of brain disorders are discussed.

An overview on the role of various gaseous molecules in health and disease The substantial biological importance of gaseous mediators in various physiological-pathological conditions has been realized only recently, but to date, the detailed mechanisms involved remain elusive. The publication at hand contains 16 overviews written by a panel of experts who summarize the current knowledge and provide fundamental insights into the roles of gaseous molecules in signal transduction in biological systems. The first part provides a comprehensive overview on gaseous mediators in health and disease. In the second part, the medical application of various molecules such as nitric oxide, carbon monoxide, hydrogen sulfide, hydrogen, acetone and phytoncide are discussed. Furthermore, articles on skin gas biology and Carbon-13 (¹³C), especially clinical applications of ¹³C-labeled substrate are included. This book provides valuable information not only for basic researchers in physiology and biochemistry, but also for gastroenterologists and clinicians who wish to learn more about the role of gaseous mediators.

Biomedical advances have made it possible to identify and manipulate features of living organisms in useful ways--leading to improvements in public health, agriculture, and other areas. The globalization of scientific and technical expertise also means that many scientists and other individuals around the world are generating breakthroughs in the life sciences and related technologies. The risks posed by bioterrorism and the proliferation of biological weapons capabilities have increased concern about how the rapid advances in genetic engineering and biotechnology could enable the production of biological weapons with unique and unpredictable characteristics. Globalization, Biosecurity, and the Future of Life Sciences examines current trends and future objectives of research in public health, life sciences, and biomedical science that contain applications relevant to developments in biological weapons 5 to 10 years into the future and ways to anticipate, identify, and mitigate these dangers.

This book covers a wide spectrum of areas related to basic bone research. While bone remodeling, bone development, and osteoclast biology constitute the main contents, topics important to the understanding of bone metabolism and treatment of bone-related diseases are also intensively reviewed. Three chapters are dedicated to the classic topic of bone mechanics, which include a brief overview of the mechanostat hypothesis, a more detailed review on mechanotransduction and bone adaptation, and a chapter illustrating the basic principles of bone mechanical testing. New emerging fields such as skeletal stem cells, bone tissue engineering, phytoestrogens applications, and bone genetics study using mouse models, are also covered in detail. The book closes with a special chapter dedicated to state-of-the-art advances in bone biology research. Contents: International Chinese Hard Tissue Society – The Power that Connects the World of Science and Culture (D X Ji & W S S Jee) Integrated Bone Tissue Anatomy and Physiology (X-J Li & W S S Jee) Skeletal Stem Cells (M Connolly & G Li) Osteoclast Biology (X Feng & H Zhou) Intercellular Communication of Osteoblast and Osteoclast in Bone Diseases (J Xu et al.) Osteoclasts and Inflammatory Osteolysis (L Xing et al.) Endochondral Bone Formation and Extracellular Matrix (Q Chen et al.) Bone Morphogenetic Proteins in Bone Formation and Development (X-J Qi et al.) Mechanical Testing for Bone Specimens (L Qin & M Zhang) Estrogens and Androgens on Bone Metabolism (A Kung & J Gu) Phytoestrogens and Bone Health: Mechanisms of Action (Z C Dang) Regulation of Bone Remodeling (D Chen et al.) TGFβ in Chondrocyte Biology and Cartilage Pathology (T F Li et al.) Bone Health in Children and Adolescents (J M Lappe) The Mechanostat Hypothesis for Bones and Other Skeletal Organs (H M Frost) Mechanotransduction and Its Role in Bone Adaptation (Y Qin & C Rubin) Bio-Pathology of Bone Tumors (L Huang et al.) Bone Tissue Engineering (X Yang & R O C Oreffo) Bone Genetic Factors Determined Using Mouse Models (W Gu & Y Jiao) Recent Advances in Bone Biology Research (D Chen et al.) Readership:

Scientists and researchers in the bone field; clinicians, especially endocrinologists, orthopedists, gynecologists and pediatricians; medical students; and students majoring in biomedical sciences (undergraduate and graduate). Keywords: Bone; Skeleton; Osteoclast; Osteoblast; Osteoporosis; Remodeling Key Features: Book covers both classic topics in bone research and new advances Topics covered represent the most active areas of bone research Contributions from leading experts such as Dr Harold M Frost, regarded by most as the most influential theoretician in skeletal biology in the last fifty years, and Dr Webster S S Jee

"Tooth Enamel: Frontiers in Mineral Chemistry and Biochemistry, Integrative Cell Biology and Genetics" incorporates the proceedings of the 9th International Enamel Symposium (Enamel 9) hosted in the UK and chaired by Professor Jennifer Kirkham and Professor Ariane Berdal. The topic covers cellular and molecular aspects of the development, pathology, evolution and repair or regeneration of dental enamel. The original research papers and reviews will be of interest to all enamel and biomineralization researchers. Clinicians will find up-to-date thinking and opinion on the aetiology of enamel pathologies and their potential future treatment via novel strategies for preventing, repairing and regenerating enamel.

An indispensable tool for biology teacher educators, researchers, graduate students, and practising teachers, this book presents up-to-date research, addresses common misconceptions, and discusses the pedagogical content knowledge necessary for effective teaching of key topics in biology. Chapters cover core subjects such as molecular biology, genetics, ecology, and biotechnology, and tackle broader issues that cut across topics, such as learning environments, worldviews, and the nature of scientific inquiry and explanation. Written by leading experts on their respective topics from a range of countries across the world, this international book transcends national curricula and highlights global issues, problems, and trends in biology literacy.

Research in Medical and Biological Sciences covers the wide range of topics that a researcher must be familiar with in order to become a successful biomedical scientist. Perfect for aspiring as well as practicing professionals in the medical and biological sciences, this publication discusses a broad range of topics that are common yet not traditionally considered part of formal curricula, including philosophy of science, ethics, statistics, and grant applications. The information presented in this book also facilitates communication across conventional disciplinary boundaries, in line with the increasingly multidisciplinary nature of modern research projects. Covers the breadth of topics that a researcher must understand in order to be a successful experimental scientist Provides a broad scientific perspective that is perfect for students with various professional backgrounds Contains easily accessible, concise material about diverse methods Includes extensive online resources such as further reading suggestions, data files, statistical tables, and the StaTable application package Emphasizes the ethics and statistics of medical and biological sciences

Single-domain antibodies (sdAbs) represent the minimal antigen binding-competent form of the immunoglobulin domain and have unique properties and applications. SdAbs are naturally produced as the variable domains of the heavy chain-only antibodies of camelid ruminants and cartilaginous fishes, but can also be engineered synthetically from autonomous human or mouse VH or VL domains. The scope of this research topic and associated e-book covers current understanding and new developments in (i) the biology, immunology and immunogenetics of sdAbs in camelids and cartilaginous fishes, (ii) strategies for sdAb discovery, (iii) protein engineering approaches to increase the solubility, stability and antigen-binding affinity of sdAbs and (iv) specialized applications of sdAbs in areas such as diagnostics, imaging and therapeutics.

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