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Cancer cell biology research in general, Page 39/86

and anti-cancer drug development specifically, still relies on standard cell culture techniques that place the cells in an unnatural environment. As a consequence, growing tumor cells in plastic dishes places a selective pressure that substantially alters their original Page 40/86

molecular and spr E phenotypicuzione properties.The emerging field of regenerative medicine has developed bioengineered tissue platforms that can better mimic the structure and cellular heterogeneity of in vivo tissue, and are suitable for tumor bioengineering Page 41/86

Read Free E Luomo Cre research. Crispr E Microengineering technologies have resulted in advanced methods for creating and culturing 3-D human tissue. By encapsulating the respective cell type or combining several cell types to form tissues, these model organs can be viable for longer periods of time

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and are cultured to develop functional properties similar to native tissues. This approach ico recapitulates the dynamic role of cell-cell, cell-ECM, and mechanical interactions inside the tumor. Further incorporation of cells representative of the tumor stroma, such as Page 43/86

endothelial cells (EC) and tumor fibroblasts, can mimic the in vivo tumor microenvironment. Collectively, bioengineered tumors create an important resource for the in vitro study of tumor growth in 3D including tumor biomechanics and the effects of anticancer drugs on 3D Page 44/86

tumor tissue. These technologies have the potential to overcome current limitations to genetic and histological tumor classification and development of personalized therapies.

A handful of discoveries have changed the course of Page 45/86

human history. This book is about the most recent and potentially the most powerful and dangerous of them all. It is an invention that allows us to rewrite the genetic code that shapes and controls all living beings with astonishing accuracy and ease. Thanks to it, the dreams of Page 46/86

genetic manipulation have become a stark reality: the power to cure disease and alleviate suffering, to create new sources of food and energy, as well as to re-design any species, including humans, for our own ends. Jennifer Doudna is the coinventor of this technology - known Page 47/86

as CRISPR - and a scientist of worldwide renown. Writing with fellow researcher Samuel Sternberg, here she provides the definitive account of her discovery, explaining how this wondrous invention works and what it is capable of. She also asks us to consider what our new-found Page 48/86

power means: how do we enjoy its unprecedented benefits while avoiding its equally unprecedented dangers? The future of humankind - and of all life on Earth - is at stake. This book is an essential guide to the path that now lies ahead.

"An extraordinary book, a gripping trip back through time to discover a different but still unique Venice and its political intrigues and mysteries" (Art as a Part of Culture). In a medieval Venice ravaged by famine and orgiastic revelries, the protagonists of The

Apothecary's Shop explore the depths of the city and the paths to the supernatural in their search for a missing child. The young Costanza, of the noble Grimani family, has disappeared. Edgardo, the family scribe, vows to return the girl to her family, an ambitious Page 51/86

enterprise considering his failing eyesight. Physical ailments and emotional torment hinder Edgardo's search, for as he undertakes this perilous investigation, images of his own lost love—Kallis, a slave from the Far East who disappeared in a storm years ago—are resurrected. Help Page 52/86

arrives in the form of Abella, the only female doctor in Venice. From her, Edgardo learns of occult medical practices and of Sabbatai's Apothecary, where the city's most desperate citizens seek heretical remedies and concoctions to sooth Page 53/86

their suffering. It is here, however, where the secret of Constanza's disappearance may lie. Venal physicians and legitimate healers, unscrupulous relatives, mystics and apothecaries, wealthy nobility and the wretched poor, undertakers, Eastern merchants, African Page 54/86

slave traders, each plays a role this ingeniously constructed mystery set in the busy and licentious trade port of Venice. "Nobody writes about Venice like Roberto Tiraboschi in The Apothecary's Shop." —I 'Unità "An extremely elegant intrique, with Page 55/86

cosmopolitan is pr E influences that reflect the character of the city, several unlikely plot twists, and the panache to put just enough confidence in the mind of the reader to keep the pages turning quickly." —Seattle Review of Books

This volume explores

the uses of RNAi and CRISPR interferences as a general method for inhibiting gene expression, with focus on their biological functions, design, chemical modifications. delivery, and preclinical/clinical applications. In addition to relevant backgrounds, the

chapters in this book discuss simple and accurate protocols dealing with the latest advances in RNAi and CRISPR applications and look at how these methods differ from one another. Written in the highly successful Methods in Molecular Biology series format. chapters include Page 58/86

introductions to their respective topics, lists of the necessary materials and reagents, step-bystep, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, RNA Page 59/86

Interference and CRISPRoluzione Technologies: **Technical Advances** and New Therapeutic Opportunities is a valuable resource for any scientist, teachers, graduate student, postdoc, and clinician interested in this field. This book also benefits anyone in research and Page 60/86

development in pr E biotech and pharmaceutical companies who want to understand more about these technologies, and their applications in biology and medicine.

Neuroscience is, by definition, a multidisciplinary field: some scientists study Page 61/86

genes and proteins at the molecular level while others study neural circuitry using electrophysiology and high-resolution optics. A single topic can be studied using techniques from genetics, imaging, biochemistry, or electrophysiology. Therefore, it can be daunting for young Page 62/86

scientists or anyone new to neuroscience to learn how to read the primary literature and develop their own experiments. This volume addresses that gap, gathering multidisciplinary knowledge and providing tools for understanding the neuroscience techniques that are Page 63/86

essential to the field, and allowing the reader to design experiments in a variety of ico neuroscience disciplines. Written to provide a "hands-on" approach for graduate students, postdocs, or anyone new to the neurosciences Techniques within one field are Page 64/86

compared, allowing E readers to select the best techniques for their own work Includes key articles, books, and protocols for additional detailed study Data analysis boxes in each chapter help with data interpretation and offer guidelines on how best to represent results Walk-through Page 65/86

boxes guide readers step-by-step through experiments

This book provides the immune oncology (IO) community with a deeper understanding of the scope of the biomarker methods to potentially improve the outcome from immunotherapy. The editors secured the Page 66/86

input from experts in the field dedicated to translating scientific research from bench to bedside was submitted. The book provides not only details about the technical. standardization and interpretation aspects of the methods but also introduces the reader to the Page 67/86

background rispr E information and scientific justification for selected biomarkers and assays. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and Page 68/86

reagents, step-bystep, readily
reproducible
laboratory protocols,
and tips on
troubleshooting and
avoiding known
pitfalls.

Exploring the diverse tools and technologies used to study synaptic processes, The Page 69/86

Dynamic Synapse: Molecular Methods in Ionotropic Receptor Biology delineates techniques, methods, and conceptual advances for studying neurotransmitter receptors and other synaptic proteins. It describes a broad range of molecular, biochemical, imaging, and

Page 70/86

electrophysiological approaches for studying the biology of synapses. Specific topics include the use of proteomics to study synaptic protein complexes, the development of phosphorylation state specific antibodies, post-genomic tools applied to the study of synapses and RNA Page 71/86

interference in spr E neurons. In addition, several chapters focus on methods for gene and protein delivery into neuronal tissue. The use of biochemical. electrophysiological and optical tagging techniques to study the movement and membrane trafficking of neurotransmitter Page 72/86

receptors in the membrane of live nerve cells are also discussed. To complement these approaches, the application of approaches for achieving long-term alterations in the genetic complement of neurons in vivo using viral vectors or homologous Page 73/86

recombination of ES cells are also described.

This monograph examines the relationship between science and democracy. The author argues that there is no clear-cut division between science and the rest of society. Rather, Page 74/86

scientists and sor E laypeople form a single community of inquiry, which aims at the truth. To defend his theory, the author shows that science and society are both heterogeneous and fragmented. They display variable and shifting alliances between components. He also explains how Page 75/86

information flow or E between science and society is bidirectional through "transactional" processes. In other words, science and society mutually define themselves. The author also explains how science is both objective and laden with values. Coverage includes a Page 76/86

wide range of topics, such as: the ideal of value-free science. the is/ought divide, "thick terms" and the language of science. inductive risk, the dichotomy between pure science and applied science, constructivism and the philosophy of risk. It also looks at the concepts of truth and Page 77/86

objectivity, the spr E autonomy of science, moral and social inquiry, perfectionism and democracy, and the role of experts in democratic societies. The style is philosophical, but the book features many examples and casestudies. It will appeal to philosophers of science, those in Page 78/86

science and technology studies as well as interested general readers.

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Epigenetic mechanisms (DNA modifications, histone alterations and noncoding RNAs) are crucial for transcriptional regulation and alterations of the Page 79/86

"physiological spr E epigenome" are increasingly associated with human diseases. During the last decade the emerging field of neuroepigenomics have started to impact tremendously in areas such learning and memory, addiction or neurodegeneration. Page 80/86

This expert volume covers the role of epigenetic molecular mechanism in regulation of central nervous system's function, one of the most exciting areas of contemporary molecular neuroscience. The book describes the current knowledge on the epigenetic basis

of human disease covering the complete lifespan: from neurod evelopment/childhood (Rett Syndrome, Rubinstein-Taybi, autism), adolescence (eating disorders, drug addiction, anxiety), adulthood (depression, schizophrenia, amyotrophic lateral sclerosis. Page 82/86

Huntington's disease) and elderly (Alzheimer's disease, Parkinson's disease). The book also covers the three major players on neuroepigenomic mechanisms: histones alterations, DNA modifications and noncoding RNAs, their roles at the molecular and cellular level and Page 83/86

the impact of their alterations on neuronal function and behavior. Finally, a special chapter on state-of-the-art technologies helps the reader not only to understand epigenetic driven changes in human cognition and diseases but also the methodology that will help to generate Page 84/86

paradigm shifts on our understanding of brain function and the role of the neuroepigenome in human diseases.

This publication examines the opportunities and challenges, for business and government, associated with Page 85/86

technologies bringing about the "next production revolution". These include a variety of digital technologies (e.g. the Internet of Things and advanced robotics), industrial...

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