Organoid

Takashi Tsuji

Human Pluripotent Stem Cell Derived Organoid Models ,2020-06-22 Human Pluripotent Stem Cell Derived Organoid Models, Volume 159 highlights recent and emerging advances that describe organoid differentiation protocols for the different organ systems that implement organoids as tools to understand complexity and maturation, high content drug screening, disease modeling, development and evolution. Specific chapters in this new release include Pluripotent stem cell derived gastric organoids, Pluripotent stem cell derived esophageal organoids, Pluripotent stem cell derived small intestinal organoids, Pluripotent stem cell derived colonic organoids, Pluripotent stem cell intestinal organoids with an Enteric Nervous System, Pluripotent stem cell derived airway organoids, Pluripotent stem cell derived alveolar organoids, and much more. Provides the first comprehensive collection of pluripotent stem cell derived organoid protocols Includes cutting-edge methods Presents methods that generate organoids from many organ systems

Organoids and Mini-Organs Jamie Davies, Melanie Lawrence, 2018-03-09 Organs and Organoids combines contributions from leading practitioners who work under the editorial control of an acclaimed researcher who also served for eight years as Editor-in-Chief of the journal Organogenesis, the first journal on this topic. The book begins with an introduction, but then delves into chapters that present advice on how to make organoids for many systems. In addition, case studies that illustrate the uses of organioids are presented, along with discussions on future directions and specific problems that need to be solved. Collects the best protocols of organoid cultures from diverse tissues Covers a wide range of organs Includes troubleshooting cases for common, but specific problems for each culture conditions Provides an entire section on the application of organoids

Organoid Technology for Disease Modelling and Personalized Treatment Badrul Hisham Yahaya, 2022-02-14 Organoid Technology for Disease Modelling and Personalised Treatment provides a comprehensive overview of current knowledge of the organoid as a human-organ-in-a-dish, a powerful new technology for studying fundamental aspects of human organ development and disease progression in the search for drugs for personalised treatment. This preclinical tool is extensively being utilised as a model for studying human diseases in a dish, which is critical for accurate predictive modelling in precision medicine. The chapters in this book introduces readers to the numerous applications of organoids in various fields of study, as well as ethical considerations associated with organoids. In stem cell biology and regenerative medicine, where chimaera research, biomaterials for tissue vascularisation, gene-editing technologies, and their use in clinical procedures especially issues related to ethical concern over the use of human organoids have gotten much attention. Organoid Technology for Disease Modelling and Personalised Treatment is an excellent resource for in-depth research on one of the most interesting and significant topics in stem cell and regenerative medicine. This book's chapter collection covers a fresh viewpoint on organoid technology that scholars will require reading.

Organoids Kursad Turksen, 2019-09-12 This detailed volume addresses the challenge of how to instruct stem/early progenitor cells to progress through appropriate steps to generate functional 3-dimensional organs, one of the outstanding issues in regenerative medicine. The field of organoids is geared towards defining and demonstrating the in vitro conditions that achieve this goal. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, Organoids: Stem Cells, Structure, and Function serves as an aid to researchers working in this vital area of research.

Brain Organoids in Research and Therapy Hans-Georg Dederer, David Hamburger, 2022-07-09 This volume elucidates the pivotal ethical and legal issues arising from the use of brain organoids for research, therapeutic and enhancement purposes. The function of the human brain is still a mystery. Until recently, only post-mortem tissue was available for a structural examination of the brain. Consequently, the examination results could only reflect the state at the end of life. However, in order to better understand the development and function of the human brain, dynamic and functional investigations of different human brain cells are necessary. This is where brain organoids, artificially grown in vitro miniature brains, provide the opportunity for more flexible research scenarios. At the same time, however, the use of brain organoids in research and therapy raises the question of how these new entities are to be treated from an ethical and legal point of view. Against this background, this volume aims at clarifying the normative implications of the use of brain organoids in research and therapy. The ethical reflections on the status of brain organoids, informed consent, human-to-animal chimeras and neuro-enhancement are mirrored by corresponding legal analyses. The ethical and legal assessments are preceded by an introduction to the scientific and medical background of the brain organoid technology. A final chapter will be devoted to the issue of whether international harmonization of normative standards for brain organoid research and therapy is feasible and advisable.

Organoids as Model Systems for Human Development, Disease and Clinical Applications Eumorphia Remboutsika, Thimios Mitsiadis, 2021-11-23

From Single Stem Cells to Organoids, Organ Repair, and Public Health Lon J. Van Winkle, Philip Iannaccone, Rebecca Ryznar, 2022-03-09

Organoid Bioengineering Manash K. Paul, 2022

Brain Organoid Research Jay Gopalakrishnan, 2022-09-22 This volume explores multiple methods and approaches used to generate human brain and neuroretinal organoids to address fundamental questions in human brain research. The chapters in this book cover topics such as self-organizing brain organoids with ventricles amenable to injection and electroporation; visualization of 3D organoids though the latest advancements in microscopy; generation of 3D retinal tissue with physiologically competent, light-sensitive photoreceptors; modeling brain tumors using genetically edited brain organoids; and brain organoids as a model to study Zika virus and SARS-COV-2 infections. In the Neuromethods series style, chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory. Comprehensive and cutting-edge, Brain Organoid Research is a valuable resource for researchers at various levels of learning, ranging from undergraduate students, early researchers, and advanced laboratories. This book aims to be instrumental in moving this developing field forward.

The Recent Advances in Human Brain Organoid System and their Applications in Disease Modeling. An Introductory Review. Dr.Hakim Saboowala,2019-03-12 The diseases of central nervous system (CNS) usually are of complex and diverse etiologies, and could be further complicated by variable genetic, epigenetic and environmental factors that differ among individuals. The complexity and delicacy of human brain make it challenging to recapitulate its:

Development, Function and Disorders. Brain organoids derived from human pluripotent stem cells (PSCs) provide a new tool to model both normal and pathological human brain, and greatly enhance our ability to study brain biology and diseases. Currently, human brain organoids are increasingly used in modeling neurological disorders and relative therapeutic discovery. An attempt has been made in this Booklet to focus on recent advances in human brain organoid system and its application in disease modeling and to discuss the limitations and future perspective of human brain organoids in modeling neurological diseases. Dr. H. K. Saboowala.M.B. (Bom)

M.R.S.H. (London)

Brain Organoids: Modeling in Neuroscience Cristina Cereda, Alysson Renato Muotri, Anna Maria Di Giulio, 2020-12-18 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Tumor Organoids Shay Soker, Aleksander Skardal, 2017-10-20 Cancer cell biology research in general, and anticancer 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 molecular and phenotypic 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 research. 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 and are cultured to develop functional properties similar to native tissues. This approach 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 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 anti-cancer drugs on 3D tumor tissue. These technologies have the potential to overcome current limitations to genetic and histological tumor classification and development of personalized therapies.

The Emerging Field of Human Neural Organoids, Transplants, and Chimeras National Academies of Sciences Engineering and Medicine, Policy and Global Affairs, Committee on Science Technology and Law, Committee on Ethical Legal and Regulatory Issues Associated with Neural Chimeras and Organoids, 2022-01-08 The United States military is arguably the most intensely technological, complex enterprise in existence. When compared to the gross domestic products of other countries, the Department of Defense (DoD) budget ranks above all but about 20 nations. If viewed as a company, it would be the largest globally with the most employees. Major investments in weapons systems using advanced technologies provide an advantage over competing systems. Each weapon, platform, vehicle, and person in an operating force is a node in one or more advanced networks that provide the ability to rapidly form a coherent force from a large number of broadly distributed elements. DoD's ability to create and operate forces of this nature demands a competent understanding by its workforce of the composition, acquisition, and employment of its technology-enabled forces. Review of Specialized Degree-Granting Graduate Programs of the Department of Defense in STEM and Management focuses on the graduate science, technology, engineering, mathematics and management (STEM+M) education issues of the Air Force, Navy, and Marines. This report assesses the cost, benefits, and organizational placement of DoD institutions that grant degrees in STEM+M and evaluates alternative ways - for example, civilian institutions and distance learning - to ensure adequate numbers and high-quality education outcomes for DoD personnel.--Publisher's description.

Organ Regeneration Based on Developmental Biology Takashi Tsuji, 2017-03-30 This book reviews three-dimensional

(3D) stem cell culture and proof of concept for organ regeneration. The chapters present studies based on developmental biology but not tissue engineering using bio-degradative scaffolds. The ultimate goal of regenerative therapy, the next generation of regenerative therapy, is to develop fully functioning bioengineered 3D organs that can replace lost or damaged organs following disease, injury, or aging. Next-generation regenerative therapy will consist of organ-replacement regenerative therapy, which aims to reproduce reciprocal epithelial and epithelial interactions and epithelial and mesenchymal interactions that occur during embryogenesis. The book then discusses the generation of several 3D functional organs and organoids such as brain, inner ear, tooth, hair, salivary glands, lacrimal glands, gastrointestinal organs, kidney, liver, and lung. This work will appeal to a wide readership such as medical scientists, developmental biologists, clinicians, and patients. The volume provides valuable information and ideas to form a next-generation field of science.

Disembodied Brains John Hyde Evans, 2024 Society has long been fascinated with mixes of humans and animals, and scientists have recently developed human-animal neuro-chimeras, which are animals with some component of a human brain. Society has also been fascinated by the brain in the vat, and now scientists have developed human brain organoids, which are small parts of a human brain in a dish grown from cells from a person's body. The general reaction to these technologies is shock or disgust, and this book closely examines the public's response to these technologies. The public tends to believe in a foundational distinction between humans and animals, and the neuro-chimera violates this distinction, resulting in opposition. Similarly, the public tends to believe that disembodied human parts are not totally separate from the original human, and therefore a brain organoid in a dish retains the essence of the person from whom the cells originate. This too results in greater concern about the human brain organoid. The book also examines more general attitudes toward biotechnology that also impact the public's views of neuro-chimeras and organoids. The book concludes with a discussion of how to set a public policy so that limits on these technologies are possible – allowing the development of the technologies for medical research but stopping the technologies from reaching the public's dystopia of the very human animal or the organoid that is perceived as actually a part of another human—

The Impact of Food Bioactives on Health Kitty Verhoeckx, Paul Cotter, Iván López-Expósito, Charlotte Kleiveland, Tor Lea, Alan Mackie, Teresa Requena, Dominika Swiatecka, Harry Wichers, 2015-04-29 "Infogest" (Improving Health Properties of Food by Sharing our Knowledge on the Digestive Process) is an EU COST action/network in the domain of Food and Agriculture that will last for 4 years from April 4, 2011. Infogest aims at building an open international network of institutes undertaking multidisciplinary basic research on food digestion gathering scientists from different origins (food scientists, gut physiologists, nutritionists...). The network gathers 70 partners from academia, corresponding to a total of 29 countries. The three main scientific goals are: Identify the beneficial food components released in the gut during digestion; Support the effect of beneficial food components on human health; Promote harmonization of currently used digestion models Infogest meetings highlighted the need for a publication that would provide researchers with an insight into the advantages and disadvantages associated with the use of respective in vitro and ex vivo assays to evaluate the effects of foods and food bioactives on health. Such assays are particularly important in situations where a large number of foods/bioactives need to be screened rapidly and in a cost effective manner in order to ultimately identify lead foods/bioactives that can be the subject of in vivo assays. The book is an asset to researchers wishing to study the health benefits of their foods and food bioactives of interest and highlights which in vitro/ex vivo assays are of greatest relevance to their goals, what sort of outputs/data can be generated and, as noted above, highlight the strengths and weaknesses of the various

assays. It is also an important resource for undergraduate students in the 'food and health' arena.

Disembodied Brains John H. Evans, 2024 Until recently, brains in vats and animals with partly-human brains have been the realm of science fiction, but recent research is making them real. In Disembodied Brains, John H. Evans examines the viewpoints of professional ethicists and scientists on the implications of these new technologies, and how those viewpoints contrast with the fearful intuitions of the general public.

Intestinal Stem Cells Paloma Ordóñez-Morán,2021-08-07 This detailed book encapsulates the most up-to-date methods of the intestinal stem cell field and provides guidance on a variety of techniques for studying intestinal stem cells properties. Beginning with a section on in vitro techniques to study different aspects of the intestinal stem cell functions by innovative imaging and functional assays, the volume continues with chapters detailing the single-cell transcriptional profiling method, the isolation of intestinal crypts to generate and establish 3D organoids, as well as different animal models of gastrointestinal cancer and examples of the use of in vivo methods for studying intestinal tumor-initiating cells or cancer stem cells. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and state-of-the-art, Intestinal Stem Cells: Methods and Protocols aims to provide comprehensive and easy to follow protocols designed to be helpful to both seasoned researchers and newcomers to this dynamic field.

Dictionary of Global Bioethics Henk ten Have, Maria do Céu Patrão Neves, 2021-05-26 This Dictionary presents a broad range of topics relevant in present-day global bioethics. With more than 500 entries, this dictionary covers organizations working in the field of global bioethics, international documents concerning bioethics, personalities that have played a role in the development of global bioethics, as well as specific topics in the field. The book is not only useful for students and professionals in global health activities, but can also serve as a basic tool that explains relevant ethical notions and terms. The dictionary furthers the ideals of cosmopolitanism: solidarity, equality, respect for difference and concern with what human beings- and specifically patients - have in common, regardless of their backgrounds, hometowns, religions, gender, etc. Global problems such as pandemic diseases, disasters, lack of care and medication, homelessness and displacement call for global responses. This book demonstrates that a moral vision of global health is necessary and it helps to quickly understand the basic ideas of global bioethics.

3D Cell Culture Zuzana Sumbalova Koledova,2024-03-31 Since the publication of the previous edition, the use of 3D cell and organoid cultures has become more widespread across laboratories. This second edition volume expands on the previous edition with discussions about the latest organoid models developed for many more organs; new hydrogels and devices for 3D culture; and the organoid systems that have been improved by incorporating more components of tissue microenvironments in the in vitro culture. The chapters in this book are organized into five parts and cover topics such as biofabrication, organoids, microfluidic systems, bioprinting, and image analysis. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Thorough and cutting-edge, 3D Cell Culture: Methods and Protocols, Second Edition is a valuable resource that will stimulate new ideas, foster interdisciplinary collaborations, and contribute to the improvement of human health and well-being.

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