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Cell Culture in the Neurosciences-Jane Bottenstein 2012-12-06 A fundamental problem in neuroscience is the elucidation of the cellular and molecular mechanisms underlying the development and function of the nervous system. The complexity of organization, the heteroge neity of cell types and their interactions, and the difficulty of controlling experimental variables in intact organisms make this a formidable task. Because of the ability that it affords to analyze smaller components of the nervous system (even single cells in some cases) and to better control experimental variables, cell culture has become an increasingly valuable tool for neuroscientists. Many aspects of neural development, such as proliferation, differentiation, synaptogenesis, and myelination, occur in culture with time courses remarkably similar to those in vivo. Thus, in vitro methods often provide excellent model systems for investigating neurobiological questions. Ross Harrison described the first culture of neural tissue in 1907 and used morphological methods to analyze the cultures. Since that time the technique has been progressively modified and used to address an ever widening range of developmental questions. In recent years a convergence of new or improved cell culture, biochemical, electrophysiological, and immunological methods has occurred and been brought to bear on neurobiological questions. This volume is intended not to be comprehensive but rather to highlight some of the latest findings, with a review of previous important work as well, in which combinations of these methods are used.

Advances in Haploid Production in Higher Plants-Alisher Touraev 2008-12-18 The importance of haploids is well known to geneticists and plant breeders. The discovery of anther-derived haploid *Datura* plants in 1964 initiated great excitement in the plant breeding and genetics communities as it offered shortcuts in producing highly desirable homozygous plants. Unfortunately, the expected revolution was slow to materialise due to problems in extending methods to other species, including genotypic dependence, recalcitrance, slow development of tissue culture technologies and a lack of knowledge of the underlying processes. Recent years have witnessed great strides in the research and application of haploids in higher plants. After a lull in activities, drivers for the resurgence have been: (1) development of effective tissue culture protocols, (2) identification of genes controlling embryogenesis, and (3) large scale and wide spread commercial up-take in plant breeding and plant biotechnology arenas. The first major international symposium on "Haploids in Higher Plants" took place in Guelph, Canada in 1974. At that time there was much excitement about the potential benefits, but in his opening address Sir Ralph Riley offered the following words of caution: "I believe that it is quite likely that haploid research will contribute cultivars to agriculture in several crops in the future. However, the more extreme claims of the enthusiasts for haploid breeding must be treated with proper caution. Plant breeding is subject from time to time to sweeping claims from enthusiastic proponents of new procedures.

Spawning Migration of the European Eel-Guido van den Thillart 2008-12-18 Freshwater eels are almost infinitely improbable creatures. They spawn and die in the middle of the ocean, often associated with undersea mountains. Their transparent, leaf-like larvae move with ocean currents for months or years until they approach the mouths of freshwater rivers. Then they undergo a dramatic transformation in morphology, physiology and behavior. They move from their planktonic oceanic environment, migrate upstream and live for several years as apex freshwater predators. Then, almost impossibly, as they become sexually mature, they reverse their migration downstream to the ocean and back to spawning grounds to complete their life cycle. The dramatic changes in their life cycles are incredible. The efforts to unravel the details of their life history have been truly daunting. Much of the past research was the work of dedicated individuals who devoted their lifetime research to these fishes. Freshwater eels merit a separate chapter in almost any textbook dealing with ichthyology, marine biology or animal migration. We know a great deal about some aspects of the biology of freshwater eels. However, our understanding of their biology still resembles a work of art as much as a work of science. To some it appears like the sweeping brush strokes of a Japanese Zen landscape, to others it resembles the work of a French impressionist, and to still others it appears as magic realism.

Agriindex- 1994

La Presse médicale- 1904 Includes 1959- Confrontations radio-anatomo-cliniques de l'hôpital de vaugirard de Paris.

Mycosphaerella Leaf Spot Diseases of Bananas- 2003 Impact of mycosphaerella leaf spot diseases of bananas. Population biology and epidemiology. Host-pathogen interactions. Genetic improvement for the management of resistance. Integrated disease management.

Bulletin signalétique- 1958

A Bibliography of Fishes: A-K. 1916-Bashford Dean 1916

Practical Sheep Dairying-Olivia Mills 1989

Micropropagation of Orchids-Joseph Arditti 2009-01-26 This greatly expanded and updated edition of a classic reference work comprises two volumes offering a compendium of methods for multiplying orchids through micropropagation. A detailed collection of procedures and methods for multiplying orchids, including organ, tissue, and cell culture techniques in vitro Presents classic techniques that have been in the forefront of orchid propagation since they were first developed in 1949 Detailed procedures are appended with tables and complete recipes for a large number of culture media Includes many illustrations, chemical formulas, historical vignettes, and seldom seen illustrations of people, orchids, apparatus and tools "... an excellent resource like its predecessor, ...both informative and captivating, and served as a reminder of why we go to such extremes in our quest to propagate these plants." American Orchid Society, 2009 "...in the sense of its universal value and importance, this Second Edition will undoubtedly be considered a classic, if only because it will serve as a sole and invaluable resource on the subject." Plant Science Bulletin, 2009

Nitrogen Assimilation by Plants-J F Morot-Gaudry 2001-01-01 This publication contains the most important information acquired over the last twenty years in the area of nitrogen metabolism and envisages new strategies to improve plant species of agronomic value by devising new techniques for growing them.

Economics As Discourse-Warren J. Samuels 2013-04-17 1 Warren J. Samuels The study of economics as discourse requires a perspective that focuses on the relationships among knowledge (or truth), discourse (or language), and meaning. Central to this task is the recognition that the conduct of economic analysis uses words and that words embody meanings that are applied to the object of study, but do not necessarily derive from that object although they define that object for us. Knowledge Economists are engaged in efforts to understand and explain the economy. In the pursuit of this knowledge they have attempted to make coherent the respect(s) in which belief is to be accepted as knowledge, or the sense(s) in which this knowledge has the quality of "truth. " The field of methodology in economics parallels the fields of epistemology and philosophy of science in the attempt to make sense of and to prescribe the terms on which efforts at knowledge may be accepted as "true," or the terms on which statements can be accepted as "knowledge. " The conduct of such methodological inquiry typically treats economics as a science 1 2 ECONOMICS AS DISCOURSE engaged in the pursuit of truth as an epistemological category - though there have almost always been economists who were skeptical of the status of economics as a science, and the pursuit of knowledge is only one of three putative function of economics, the other two being psychic balm and social control.

Physical Science Two-Newton College of the Sacred Heart 1972

The Cultural Values of Science-Pontificia Accademia delle scienze 2003

Rapid Diagnosis of Mycoplasmas-Itzahak Kahane 2012-12-06 This compendium is the result of the FEMS Workshop on "Rapid Diagnosis of Mycoplasmas" which I organized and which took place in Jerusalem, Israel, August 11-23, 1991. The first week's sessions were held at a resort on the outskirts of Jerusalem and consisted of lectures and discussions. This part was modelled along the lines of the Gordon Conference in the USA, i.e., in an intimate atmosphere in which everyone could mix and exchange ideas, and was very beneficial. About 100 scientists from around the world attended the first week. During the first week, the biology, molecular biology and pathophysiology of mycoplasmas, as well as all the main diagnostic methods were covered, including both conventional and the newer technologies. The session on mycoplasmas in the human urogenital tract was held in conjunction with the Israel Society for the Study and Prevention of Sexually Transmitted Disease. The second week was a laboratory session and was held at the Hebrew University-Hadassah Medical School campus in Ein Karem, Jerusalem. All experiments were conducted by eminent specialists in their field. The lab session had 36 participants from 19 countries who used the most modern techniques for the diagnosis of mycoplasmas in medicine, veterinary medicine and agriculture. The efficacy of several commercial kits were also tested at this time. I want to again thank everyone who helped and supported this workshop, as well as the authors of the various chapters.

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The Mycoplasmas: Spiroplasmas, acholeplasmas, and mycoplasmas of plants and arthropods-Michael Frederick Barile 1979

Return to Play in Football-Volker Musahl 2018-03-16 In this book, leading experts employ an evidence-based approach to provide clear practical guidance on the important question of when and how to facilitate return to play after some of the most common injuries encountered in football. Detailed attention is paid to biomechanics, the female athlete, risk factors, injury prevention, current strategies and criteria for safe return to play, and future developments. Specific topics discussed in depth include concussion, anterior cruciate ligament and other knee injuries, back pathology, rotator cuff tears, shoulder instability, hip arthroscopy, and foot and ankle injuries. The chapter authors include renowned clinicians and scientists from across the world who work in the field of orthopaedics and sports medicine. Furthermore, experiences from team physicians involved in the Olympics, National Football League (NFL), Union of European Football Associations (UEFA), and Fédération Internationale de Football Association (FIFA) are shared with the reader. All who are involved in the care of injured footballers will find this book, published in cooperation with ESSKA, to be an invaluable, comprehensive, and up-to-date reference that casts light on a range of controversial issues.

The Tomato Genome-Mathilde Causse 2016-11-21 This book describes the strategy used for sequencing, assembling and annotating the tomato genome and presents the main characteristics of this sequence with a special focus on repeated sequences and the ancestral polyploidy events. It also includes the chloroplast and mitochondrial genomes. Tomato (*Solanum lycopersicum*) is a major crop plant as well as a model for fruit development, and the availability of the genome sequence has completely changed the paradigm of the species' genetics and genomics. The book describes the numerous genetic and genomic resources available, the identified genes and quantitative trait locus (QTL) identified, as well as the strong synteny across Solanaceae species. Lastly, it discusses the consequences of the availability of a high-quality genome sequence of the cultivated species for the research community. It is a valuable resource for students and researchers interested in the genetics and genomics of tomato and Solanaceae.

The Integrative Action of the Nervous System-Charles Scott Sherrington 1906

Risk Assessment and Management-Lester B. Lave 2013-06-29 This is a collection of papers presented at the 1985 annual meeting of the Society for Risk Analysis. As always seems to occur at these meetings, the discussion was lively, the sessions were filled, and people complained about not being able to hear all the papers they wanted to because of concurrent sessions. If ever someone is in charge of a meeting, I wish them the good luck to have it be one for the Society for Risk Analysis. While I was responsible for the meeting, it could not have taken place without the efforts of the general chairman, Alan Moshissi. The program committee was chaired by Janice Longstreth, and included Lee Abramson and Vincent Covello. Together we assembled disparate papers into reasonably coherent sessions, prodded authors into getting us manuscripts on time, and dealt with all the last minute changes that are required for a major meeting. The Washington chapter of the Society for Risk Analysis hosted the meeting. Dr. Longstreth was president of the chapter during this fateful year and deserves a great deal of thanks for her organizational skills and efforts. Rick Cothern, Jerry Chandler, Kathleen Knox, Sue Perlin, and Paul Price played major roles in organizing the meeting and making it run smoothly. Special thanks go to Richard J. Burk, Jr., Executive Secretary of the Society, and his staff for handling the logistics.

The Social Amoebae-John Tyler Bonner 2009 Noted biologist and author John Tyler Bonner has experimented with cellular slime molds for more than sixty years, and he has done more than anyone else to raise these peculiar collections of amoebae from a minor biological curiosity to a major model organism—one that is widely studied for clues to the development and evolution of all living things. Now, five decades after he published his first pioneering book on cellular slime molds, Bonner steps back from the proliferating and increasingly specialized knowledge about the organism to provide a broad, nontechnical picture of its whole biology, including its evolution, sociobiology, ecology, behavior, and development. The Social Amoebae draws the big lessons from decades of research, and shows how slime molds fit into and illuminate biology as a whole. Slime molds are very different from other organisms; they feed as individual amoebae before coming together to form a multicellular organism that has a remarkable ability to move and orient itself in its environment. Furthermore, these social amoebae display a sophisticated division of labor; within each organism, some cells form the stalk and others become the spores that will seed the next generation. In *The Social Amoebae*, Bonner examines all these parts together, giving a balanced, concise, and clear overview of slime mold biology, from molecules to cells to multicells, as he advances some unconventional and unexpected insights.

Induced Mutagenesis-Christopher W. Lawrence 2013-03-09 Concern is often expressed that our environment may include an increasingly large variety of mutagens, but the extent of the potential hazard they pose has yet to be fully evaluated. A variety of empirical procedures has been devised with which to estimate the mutagenic potency of suspect agents, and the relative merits of different tests are currently under debate. Although such tests are of great value, and are indeed indispensable, they are not, nevertheless, sufficient. In the long term, accurate estimation of hazard will also require a better understanding of the various mechanisms of mutagenesis, and in many instances these remain remarkably elusive. Our knowledge and appreciation of the problem has increased substantially over the last few years