

Walter H. Sater, Series Editor

MODERN CELL BIOLOGY

Volume 7

Gap Junctions

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Modern Cell Biology Volume 3

J.E. Hall, Guido Zampighi, R.M. Davis



Modern Cell Biology Volume 3:

Embryology of Flowering Plants: Terminology and Concepts, Vol. 3 T B Batygina, 2019-04-23 Plant embryology dealing with the regularities of initiation and the first stages of development of an organism is now flourishing because of the overall progress being made in natural sciences Such discoveries of the 20th century as production of plants from a single somatic cell experimental haploidy and parasexual hybridization were of general biological significance The combined efforts of embryologists geneticists and molecular biologists yielded the discovery of specific genes that control meiosis egg cell development and early stages of embryogenesis The tendency to synthesize data of embryology and genetics has become increasingly noticeable It is connected with the fact that the majority of problems connected with morphogenesis such as differentiation specialization the evaluation of features and the definition of the notions gene and feature and genotype and phenotype concern embryology and genetics embryogenetics in one way or another Evolutionary embryology has given rise to a new approach to the study of problems of adaptation in plants In connection with the problem of preserving biological diversity under conditions of ecological stress special attention is paid to ecological embryology revealing the critical periods in early ontogenesis and plasticity and tolerance of reproductive systems at the level of species and population The study of variability of morphogenesis and phenotype in population life cycle variations and the diversity of reproductive systems is the most important point in the population embryology of plants

Immunology of Insects and Other Arthropods Ayodhya P. Gupta, 2019-08-08 Most comprehensive book to date on insect immunocytes and other hemocytes Computer image analysis of immunocyte serial sections Why insects are immune to HIV Structural and functional similarities between certain components of the immune systems of arthropods and vertebrates Applications of Limulus Amebocyte Lysate LAL to detect endotoxin contamination in pharmaceuticals medical devices clinical diagnosis and hygienic control

Biophysics of Gap Junction Channels M.D. Peracchia, 2018-01-18 This book provides a state of the art account of present knowledge of the biophysics of cell to cell channels It is divided into two sections one dealing with two cell systems and the other with reconstitution systems

Cell Surface Carbohydrates and Cell Development Minoru Fukuda, 2024-12-20 Cell Surface Carbohydrates and Cell Development summarizes knowledge on the structure and function of cell surface carbohydrates in development and differentiation The chapters include reviews on the expression of cell type specific carbohydrates and their roles in cell cell interaction In particular the role of cell surface carbohydrates in immune cell response malignant transformation fertilization and neural cell development are addressed This includes the exciting discovery about the role of adhesive molecules in leukocyte endothelium interaction Cell Surface Carbohydrates and Cell Development also summarizes the latest knowledge on structure and biosynthesis of carbohydrates the role of specific carbohydrate modification and animal lectins The book will be useful to researchers and students interested in the biology of glycoproteins and biotechnology

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Neurochemistry R. Wayne Albers, Donald L. Price, 2005-11-11 Basic Neurochemistry Molecular Cellular and Medical Aspects a comprehensive text on neurochemistry is now updated and revised in its Seventh Edition This well established text has been recognized worldwide as a resource for postgraduate trainees and teachers in neurology psychiatry and basic neuroscience as well as for graduate and postgraduate students and instructors in the neurosciences It is an excellent source of information on basic biochemical processes in brain function and disease for qualifying examinations and continuing medical education Completely updated with 60% new authors and material and entirely new chapters Over 400 fully revised figures in splendid color

Protein Compartmentalization Arnold W. Strauss, Irving Boime, Günther Kreil, 2012-12-06 During the past few decades we have witnessed an era of remarkable growth in the field of molecular biology In 1950 very little was known of the chemical constitution of biological systems the manner in which information was transmitted from one organism to another or the extent to which the chemical basis of life is unified The picture today is dramatically different We have an almost bewildering variety of information detailing many different aspects of life at the molecular level These great advances have brought with them some breath taking insights into the molecular mechanisms used by nature for replicating distributing and modifying biological information We have learned a great deal about the chemical and physical nature of the macromolecular nucleic acids and proteins and the manner in which carbohydrates lipids and smaller molecules work together to provide the molecular setting of living systems It might be said that these few decades have replaced a near vacuum of information with a very large surplus It is in the context of this flood of information that this series of monographs on molecular biology has been organized The idea is to bring together in one place between the covers of one book a concise assessment of the state of the subject in a well defined field

Current Catalog National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965 70

National Library of Medicine Current Catalog National Library of Medicine (U.S.),

Protein Kinases Gabriela Da Silva Xavier, 2012-06-05 Proteins are the work horses of the cell As regulators of protein function protein kinases are involved in the control of cellular functions via intricate signalling pathways allowing for fine tuning of physiological functions This book is a collaborative effort with contribution from experts in their respective fields reflecting the spirit of collaboration across disciplines and borders that exists in modern science Here we review the existing literature and on occasions provide novel data on the function of protein kinases in various systems We also discuss the implications of these findings in the context of disease treatment and drug development

Philosophy of Science Alexander Christian, David Hommen, Nina Retzlaff, Gerhard Schurz, 2018-03-26 This broad and insightful book presents current scholarship in important subfields of philosophy of science and addresses an interdisciplinary and multidisciplinary readership It groups carefully selected contributions into the four fields of I philosophy of physics II philosophy of life sciences III philosophy of social sciences and values in science and IV philosophy of mathematics and formal modeling Readers will discover research papers by Paul Hoyningen Huene Keizo Matsubara Kian

Salimkhani Andrea Reichenberger Anne Sophie Meincke Javier Suarez Roger Deulofeu Ludger Jansen Peter Hucklenbroich Martin Carrier Elizaveta Kostrova Lara Huber Jens Harbecke Antonio Piccolomini d'Aragona and Axel Gelfert This collection fosters dialogue between philosophers of science working in different subfields and brings readers the finest and latest work across the breadth of the field illustrating that contemporary philosophy of science has successfully broadened its scope of reflection It will interest and inspire a wide audience of philosophers as well as scholars of the natural sciences social sciences and the humanities The volume shares selected contributions from the prestigious second triennial conference of the German Society for Philosophy of Science Gesellschaft für Wissenschaftsphilosophie GWP 2016 March 8-11 2016

Gap Junctions J.E. Hall, Guido Zampighi, R.M. Davis, 2012-12-02 Gap junctions are present in nearly all tissues regardless of their embryonic origin and have long been of great interest to scientists from many different disciplines The international meeting on which this book is based brought together 157 scientists from 12 countries and almost as many scientific disciplines The papers presented at the meeting were reviewed and updated prior to publication in this book The seven parts of the book progress from general topics to the more specific ones role of gap junctions in various tissues regulation and biochemistry and cancer

Subject Guide to Books in Print, 1993

Philosophical Perspectives on the Engineering Approach in Biology Sune Holm, Maria Serban, 2020-06-07 Philosophical Perspectives on the Engineering Approach in Biology provides a philosophical examination of what has been called the most powerful metaphor in biology The machine metaphor The chapters collected in this volume discuss the idea that living systems can be understood through the lens of engineering methods and machine metaphors from both historical theoretical and practical perspectives In their contributions the authors examine questions about scientific explanation and methodology the interrelationship between science and engineering and the impact that the use of engineering metaphors in science may have for bioethics and science communication such as the worry that its wide application reinforces public misconceptions of the nature of new biotechnology and biological life The book also contains an introduction that describes the rise of the machine analogy and the many ways in which it plays a central role in fundamental debates about e.g. design adaptation and reductionism in the philosophy of biology The book will be useful as a core reading for professionals as well as graduate and undergraduate students in courses of philosophy of science and for life scientists taking courses in philosophy of science and bioethics

International Review of Cytology, 1992-02-03 International Review of Cytology

Cytoskeleton A.D. Bershadsky, J.M. Vasiliev, 2012-12-06 This book like other monographs of the Cellular Organelles series is not a comprehensive review but an introduction to the study of cytoskeleton Accordingly we describe only the main facts and concepts related to cytoskeleton Needless to say selection and interpretation was influenced by the personal interests and opinions of the authors although we attempted to be as fair as possible We wished to familiarize the reader not only with well established facts but with current unsolved problems Therefore the words possibly maybe not known and not clear are much more frequent in this text than in

many others In accordance with the style of the series relatively short lists of additional readings are given at the end of each chapter these lists contain mostly the recent reviews and a few original papers describing certain phenomena in detail Few references are cited in the text these citations are given to help the reader find the source of certain new data and theories which are not discussed at length in the reviews In contrast many well established facts and widely known theories are not cited

Cell Intercommunication Walmore C. De Mello, 2018-01-18 This important publication addresses intercellular communication in health and disease It includes recent advances in morphology and chemical organization of gap junctions It discusses the possible role of intercellular channels in excitable and non excitable tissues The book presents modulation of junctional permeability as well as the possible role of cell communication in embryonic development and growth The text concludes with a synthetic view of the role of gap junctions and potential implications to cardiology oncology and other areas of pathology This volume is important to professionals in pharmacology physiology biochemistry biomedical science pathobiology pathology molecular genetics toxicology and human development

The Biology of Nematodes Donald L Lee, 2002-01-10 The Biology of Nematodes synthesizes literature on free living plant parasitic and animal parasitic nematodes Topics covered include systematics and phylogeny neuromuscular physiology locomotion sense organs behavior aging the nematode genome survival strategies immunology structure and organization gametes and fertilization and feeding and metabolism This volume the most authoritative available includes contributions from researchers working on groundbreaking molecular techniques leading to new approaches in the study of nematode worms It provides an important resource for research scientists working in a number of agricultural medical and biological fields

Monograph of the Oxytrichidae (Ciliophora, Hypotrichia) Helmut Berger, 2012-12-06 The monophylum Oxytrichidae Ciliophora Hypotrichia contains freshwater marine and soil dwelling species Some taxa are extremely widespread in freshwater e g Oxytricha Stylonychia or in terrestrial habitats e g Gonostomum Oxytricha and Stylonychia have been used for many molecular ultrastructural and genetic investigations This is the first book since Ehrenberg s 1838 monumental work to summarize the morphological morphogenetic faunistic and ecological data from the past 220 years scattered in more than 2500 references from all over the world One central dichotomous key leads directly to 32 genera comprising about 169 species which are illustrated by more than 2400 figures including original ones Taxonomists ecologists limnologists soil biologists and cell biologists will find a list of synonyms a discussion of nomenclatural and taxonomic problems and a detailed morphological and ecological description including almost all published faunistic records This enables both the specialist and the practitioner to determine species without referring back to the original literature The book offers the interested scientist a thorough and up to date revision of the oxytrichids

Current Topics in Membranes and Transport, 1985-06-10 Current Topics in Membranes and Transport

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