



The Development Of Dictyostelium Discoideum

Raymond Ivatt



The Development Of Dictyostelium Discoideum:

The Development Of Dictyostelium Discoideum William Loomis, 2012-12-02 The Development of Dictyostelium discoideum consists of 11 chapters representing the 11 major aspects at which continuous progress are made in the study of Dictyostelium discoideum This book begins with the discovery classification ecology and development of Dictyostelium discoideum It then outlines the advances in genetic manipulation and mutant isolation of the organism Much of the advances in cell biology have been related to a better understanding of the composition and function of the cell membrane Hence analyses of Dictyostelium plasma membranes are collated This reference material also describes the role of chemoattractants in organizing cell movements and the intracellular events triggered by occupancy of chemoreceptors It also explains the understanding of the macromolecular components of the chemosensory system of Dictyostelium discoideum It further discusses the cell motility cell adhesion morphogenetic signaling cytodifferentiation and gene expression in the species Finally the phenomenon of cell type specification and regulation in this organism is addressed This book will be valuable for those already familiar with the general outlines of Dictyostelium biology

Analysis of Gene Expression During the Development of Dictyostelium Discoideum Paul James Flynn, 1995 *Signals During the Development of Dictyostelium Discoideum* Conchita Cornelia Gezina Maria Schulkes, 1996 *The Cell Surface in Development and Cancer* Malcolm S. Steinberg, 2013-06-29 This series was established to create comprehensive treatises on specific topics in developmental biology Such volumes serve a useful role in developmental biology since it is a very diverse field that receives contributions from a wide variety of disciplines This series is a meeting ground for the various practitioners of this science facilitating an integration of heterogeneous information on specific topics Each volume is intended to provide the conceptual basis for a comprehensive understanding of its topic as well as an analysis of the key experiments upon which that understanding is based The specialist in any aspect of developmental biology should understand the experimental background of the field and be able to place that body of information in context to ascertain where additional research would be fruitful At that point the creative process generates new experiments This series is intended to be a vital link in that ongoing process of learning and discovery

Dictyostelium Discoideum William Loomis, 2012-12-02 Dictyostelium Discoideum A Developmental System presents Dictyostelium discoideum as a model eukaryotic system to study a variety of developmental problems The book describes the life cycle of the organism Dictyostelium discoideum which exists in nature as a soil amoeba in forest detritus The nuclei of Dictyostelium discoideum contain DNA RNA and proteins which have properties similar to those of histones present in calf thymus nuclei The unique sequences of the genome of the organism code for the gene products synthesized during its growth and development One approach in genetic analyses to understanding the developmental processes of the organism is to isolate a large number of morphological mutants The isolation process will indicate the number of variations that are open to the developing system and will point to causal connections between stages The text also explains that the number of cells which differentiate into

stalk cells is the result of timing and mechanics of the process of culmination Ashworth 1971 suggests that cells in pseudoplasmodia of *D. discoideum* adjust their positions in relation to the chemical structure of the sheath itself A model shows how cells communicate their response to the sheath in an axial fashion The book can prove beneficial for biochemists micro biologists cellular researchers and investigators involved in the study of cellular biology

Regulation of Cell Type Specific Gene Expression During Development of Dictyostelium Discoideum A. J. Richards,1987

The Role of LagC in the Development of Dictyostelium Discoideum Joseph Lee Dynes,1994

The Biology of Glycoproteins Raymond Ivatt,2013-11-11 This book is in many ways a sequel to *The Biochemistry of Glycoproteins and Proteoglycans* The enormous recent progress in understanding the biological roles of glycoproteins has prompted the present volume The reasons for studying glycoproteins have multiplied and in the present volume the roles played by glycoproteins are explored in a variety of biological situations The first two chapters describe molecules involved in cell substratum and cell cell interactions in a broad sense and also focus on recent progress in identifying specific attachment molecules Our understanding of how normal processes such as cellular differentiation and tissue organization are regulated is dependent on understanding how cells interact with the extracellular matrix When these processes go awry the consequences can be tragic for example when manifest as birth defects and cancer Our ability to devise appropriate therapies is in many cases limited by our understanding of such cell matrix interactions The third chapter explores the roles by glycoproteins during early mammalian development The carbohydrate portions clearly play very important roles in presenting information during early embryogenesis and an unusual tumor stem cell the embryonal carcinoma looks very promising in providing an experimental system for understanding how the expression of these complex carbohydrate determinants is regulated The next three chapters explore the biology of glycoproteins in distinct situations in the immune system in the nervous system and during erythropoiesis

Cell Surface Carbohydrates and Cell Development Minoru Fukuda,1991-12-13 *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

Influence of Culture Conditions Upon the Growth and Development of Dictyostelium Discoideum Kenneth Bryan Raper,1939

Progress in Molecular and Subcellular Biology Philippe Jeanteur,2012-12-06 Biological functions are almost exclusively attributed to macromolecules i e nucleic acids proteins and polysaccharides To gain their complete

functional activities these biomolecules have to associate with the nuclear matrix the cytoskeleton and the cell plasma membranes It is the aim of this series to discuss actual aspects in the field of structure associated genetic and epigenetic functional processes This series of survey reviews fills the gap in structure associated information flow and is a vital reference work for scientists in molecular and cell biology Development Vincenzo E.A. Russo, Stuart Brody, David Cove, Sergio Ottolenghi, 2012-12-06 As a result of the molecular genetic analysis of development similar mechanisms for the regulation of gene expression are found in a wide range of organisms In Development the Molecular Genetic Approach these common mechanisms as well as the specific events leading to a differentiated cell are described Particular items treated are for example how asymmetry is achieved how cell size is determined how cell division is controlled how cell lineage influences development how cells know their position and how cells communicate during development *Dictyostelium* Richard H. Kessin, 2001-01-11 Dictyostelia are soil amoebae capable of extraordinary feats of survival motility chemotaxis and development Characterised by their ability to transform from a single celled organism into an elaborate assemblage of thousands of synchronously moving cells Dictyostelids are often referred to as social amoebae and have been the subjects of serious study since the 1930s Research in this area has been instrumental in understanding many problems in cellular biology Beginning with the history of Dictyostelids and discussing each stage of their development this book considers the evolution of this unique organism analyses the special properties of the Dictyostelid genome and presents in detail the methods available at the time of the book s original publication in 2001 to manipulate their genes Representing the synthesis of such material and with an emphasis on combining classical experiments with modern molecular findings this book will be essential for researchers and graduates in developmental and cellular biology **Regulation of Growth and Development of Dictyostelium Discoideum by Caffeine** Rachel M. Bobo, 1998 **Growth and Development of Dictyostelium Discoideum with Different Bacterial Associates** , 1939 The ras Superfamily of GTPases (1993) Juan Carlos Lacal, Frank Patrick McCormick, 2017-11-22 The ras Superfamily of GTPases presents the most comprehensive compilation of information available regarding aspects of the putative function of small ras related GTPases The book s chapters were written by the world s most prominent scientists in this field and cover such topics as the structure and properties of ras proteins ras function the ras superfamily in general and the functional regulation of ras and ras related GTPases The book will benefit cell biologists oncologists neurobiologists molecular biologists and others interested in the topic *Cumulated Index Medicus* , 1974 **Current Topics in Developmental Biology** , 1993-07-22 Current Topics in Developmental Biology *Development and Differentiation in the Cellular Slime Moulds* P. Cappuccinelli, J.M. Ashworth, 2014-05-21 Developments in Cell Biology Volume 1 Development and Differentiation in the Cellular Slime Moulds is a collection of papers from the proceedings of the International Workshop held at Porto Conte Sardinia on April 12 16 1977 This collection of papers deals with a single group of organisms the cellular slime molds particularly with Dictyostelium discoideum Dictyostelium is dealt

firstly according to cell differentiation and pattern formation common in this type of organism These examples are further explored in the Dictyostelium discoideum slug through the control of morphogenesis Further research shows that two compounds 3 5 cyclic AMP and NH₃ can affect the course of morphogenesis in D discoideum Techniques for cell fusion and mutation induction in D discoideum especially as a result of DNA damage following radiation and chemicals are analyzed Other studies show that formation and maintenance of stable contacts between cells appear to be necessary for the normal cell cycle involved in the growth of D discoideum The changes in plasma membrane protein analyzed using SDS polyacrylamide gel electrophoresis are examined Results show that detection and quantitation of tubulin in Dictyostelium discoideum is important when studying the differentiation processes of a wide range of cellular activities Because many D discoideum mutants fail to reach proper development the method for selecting the aggregation of defective mutants of D discoideum is emphasized This book is of interest to those whose work involves these organisms and to researchers professors and students whose disciplines are in Developmental Biology or Mycology

Ion Transporters and Channels in Cellular Pathophysiology Rossana Morabito,Alessia Remigante,Paola Gavazzo,Silvia Dossena,2023-04-14

The Development Of Dictyostelium Discoideum: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. The Development Of Dictyostelium Discoideum : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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