Genome Multiplication in Growth and Development
Genome Multiplication in Growth and Development Biology of Polyploid and Polytene Cells

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Genome Multiplication in Growth and Development
Y.da Bruyns 1985

Comparison of the developmental biology of genome multiplication, the reproduction of the genetic material that results in polyploid and polytene cells is in many years' study by its authors. Polyploid and polytene cells regularly occur in a wide range of organisms, including mammals, invertebrates, plants and protists. The cells also have a particular significance for the function of the tissues and organs of which they are an integral part. The first part of the book details the origin of polyploidy and polynery in the normal development of many tissue systems. In the second part, the various modes of genome multiplication, its control, and its biological significance are discussed. The book is fully illustrated with line drawings in many languages, and is particularly valuable in that it includes scientific results previously only available in Russian.

Multiplication and Division in Mammalian Cells-Renato Baserga 1976

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Analysis of Growth and Development in Xanthium-Roman Naykovych 1990-05-10

DNA Replication and Related Cellular Processes-Jolene Kuo-Tsai 2011-09-26

Since the discovery that the DNA sequence of DPRI has been a highly interesting in the molecular biology of genome inheritance. This book covers the whole range of aspects of protein synthesis. The association between DNA replication, repair and recomposition is also addressed, as well as summaries of recent work of the replication cycles of prokaryotic and eukaryotic viruses. The reader will gain an overview of our current understanding of DNA replication and related cellular processes, and useful resources for further reading.

Soviet Biological Warfare Threat-United States. Defense Intelligence Agency 1986

Somatic Variation in Crop Improvement-4 Professor Dr. Y. P. S. Bajaj 2013-05-14

How the Genome Works-Ewubn H. Coscoy 2004 This book covers the essential principles of genetics in a readable, accessible format using real-life examples of the way genes affect human behavior, health and development.


The brain is omnipresent in bodily functions. Its vast array of responsibilities includes the regulation of all physical movements, memory, learning and emotions, as well as the regulation of the immune system. Although the brain is a very large and complex organ, the brain is very complex, to say the least. The brain's complexity presents a constant challenge for scientists to explore new theories. Because of the brain's wide-ranging role in bodily functions these studies have an impact on many other fields of science, such as psychology, neurology, and genetics. This book features recent studies from this important field of scientific research.

FUNDAMENTALS OF PLANT PATHOLOGY-N. G. RAVICHANDRA 2013-04-22

This book is based on the syllabus prescribed by the Indian Council of Agricultural Research. New Delhi, for the first and second-year undergraduate students of plant pathology in State Agricultural and Horticultural Universities and hence, is of special interest to the students. The book covers the classical diseases and disease problems, derived from the phytopathological, physiological and ecological aspects of plant pathology, scope and objectives, importance of plant diseases, history and development of plant pathology, theory of plant diseases, causes of plant diseases (biotic and abiotic viruses with representative examples) symptoms, general characteristics of plant pathogens, classification of phytopathogens, growth and reproduction of plant pathogens including replication of plant viruses, liberation or dispersal of plant pathogens, and disease cycles and the interaction of the environment. The book is an excellent resource for students and researchers in plant pathology.

Vascular Differentiation and Plant Growth Regulators-Loris W. Roberts 2012-12-06

The main objective of the book is to provide an up-to-date examination of the possible roles of plant hormones during the cytodifferentiation of shoots and phloem elements in higher plants. Various facets of vascular differentiation, as cell determination, cell cycle activity, and the biotechnical events in xylogenesis are reviewed. Furthermore, the latest information on the roles of auxins, cytokinins, gibberellins, ethylene, and abscisic acid during vascular cell determination, cell cycle activity, and the biochemical events in xylogenesis, are analyzed. Furthermore, the latest information on the roles of auxins, cytokinins, gibberellins, ethylene, and abscisic acid during vascular cell determination, cell cycle activity, and the biochemical events in xylogenesis, are analyzed. Furthermore, the latest information on the roles of auxins, cytokinins, gibberellins, ethylene, and abscisic acid during vascular cell determination, cell cycle activity, and the biochemical events in xylogenesis, are analyzed. Furthermore, the latest information on the roles of auxins, cytokinins, gibberellins, ethylene, and abscisic acid during vascular cell determination, cell cycle activity, and the biochemical events in xylogenesis, are analyzed.

The Plant Cell Cycle-Dirk Inze 2000-11-30

In recent years, the study of the plant cell cycle has become of major importance to scientists interested in the molecular basis of plant development and reproduction, and environmental effects on growth. The book The Plant Cell Cycle is a very timely contribution to this expanding field. Outstanding contributors reviewed, not only knowledge on the most important classes of cell cycle regulators, but also summarized the various processes in which cell cycle control plays a significant role. The central role of the cell cycle making this book an absolute must for plant molecular biologists.

Meeting the Nation's Needs for Biomedical and Behavioral Scientists-National Research Council 1994-02-01

This book assesses the nation's future needs for biomedical and behavioral scientists and the role the National Research Service Awards (NRSA) program can play in meeting those needs. The year 1994 marks the twentieth anniversary of the National Research Act of 1974 (PL 93-348), which established the NRSA program. In its twenty years of operation, the NRSA program has made it possible for many thousands of talented individuals in the basic biomedical, behavioral, and clinical sciences to sharpen their research skills and to apply those skills to topics of special concern to the nation, such as aging, hypertension, the genetic basis of disease, acquired immune deficiency syndrome (AIDS), cancer, environmental toxicology, nutrition and health, and substance abuse.

Development and Reproduction in Humans and Animal Model Species-Werner A. Mueller 2015-01-03

This book describes human development including sexual reproduction and stem cell research with the development of tissues and organs of the organism, emphasizing cell, molecular, and cellular biology, carcinogenesis, and genetics. The various modes of genome multiplication, its control, and its biological significance are discussed. The book is an excellent resource for students and researchers in plant pathology.

Next events in Brain Research-F. J. Chen 2006

The brain is omnipresent in bodily functions. Its vast array of responsibilities includes the regulation of all physical movements, memory, learning and emotions, as well as the regulation of the immune system. Although the brain is a very large and complex organ, the brain is very complex, to say the least. The brain's complexity presents a constant challenge for scientists to explore new theories. Because of the brain's wide-ranging role in bodily functions these studies have an impact on many other fields of science, such as psychology, neurology, and genetics. This book features recent studies from this important field of scientific research.

International Review of Cytochemistry-Kwong W. Jean 1996-04-24

This book presents advanced and comprehensive reviews in cell biology both plant and animal. Articles address structure and control of gene expression, nucleocytoplasmic interactions, control of cell development and differentiation, and transformation and growth. Authored by some of the foremost scientists in the field, each volume provides up-to-date information and directions for future research.

Understanding Aging-Robin Holloway 1995-01-27

This book explains why aging exists, reviews our understanding of it at the cellular level and discusses age-related diseases.

Analysis of Normal and Alimentary Cell Growth-Ferdinand Heinze 2013-11-11

Genomics of Foodborne Bacterial Pathogens-Martin Weidmann 2011-04-04

This book presents the genomics of foodborne bacterial pathogens. It begins with a brief overview of the recent advances in microbial genomics and the impact of genomics on food safety research. Then, eight chapters follow that elaborate some topics related to the genomics of foodborne bacterial pathogens. This book will be a useful reference for researchers interested in the genomics of foodborne bacterial pathogens.

Development and Reproduction in Humans and Animal Model Species-Werner A. Mueller 2015-01-03

This book describes human development including sexual reproduction and stem cell research with the development of tissues and organs of the organism, emphasizing cell, molecular, and cellular biology, carcinogenesis, and genetics. The various modes of genome multiplication, its control, and its biological significance are discussed. The book is an excellent resource for students and researchers in plant pathology.

Genotypic Expression and the Control of Gene Expression in the Prokaryotic Cell-Bruce Alberts 2004

This book describes human development including sexual reproduction and stem cell research with the development of tissues and organs of the organism, emphasizing cell, molecular, and cellular biology, carcinogenesis, and genetics. The various modes of genome multiplication, its control, and its biological significance are discussed. The book is an excellent resource for students and researchers in plant pathology.

Microbial Sense and Sewing: Evolution of Bacterial Chemotaxis-Walter F. Voelz 1992-02-02

This book describes human development including sexual reproduction and stem cell research with the development of tissues and organs of the organism, emphasizing cell, molecular, and cellular biology, carcinogenesis, and genetics. The various modes of genome multiplication, its control, and its biological significance are discussed. The book is an excellent resource for students and researchers in plant pathology.

Current Topics in Developmental Biology-1973-05-16

This book describes human development including sexual reproduction and stem cell research with the development of tissues and organs of the organism, emphasizing cell, molecular, and cellular biology, carcinogenesis, and genetics. The various modes of genome multiplication, its control, and its biological significance are discussed. The book is an excellent resource for students and researchers in plant pathology.

Development and Reproduction in Humans and Animal Model Species-Werner A. Mueller 2015-01-03

This book describes human development including sexual reproduction and stem cell research with the development of tissues and organs of the organism, emphasizing cell, molecular, and cellular biology, carcinogenesis, and genetics. The various modes of genome multiplication, its control, and its biological significance are discussed. The book is an excellent resource for students and researchers in plant pathology.
We begin this discussion with a brief overview of the subject matter. The study of molecular biology, as it relates to the understanding of the genetic and biochemical processes that govern life, has been a cornerstone of modern science. The focus of this book is to provide a comprehensive understanding of the molecular basis of life, with an emphasis on the role of genetics and biochemistry in shaping the diversity of life on Earth.

Molecular Biology of Bacterial Viruses

Gunther Siegmond Stent

The study of bacterial viruses, or bacteriophages, has provided significant insights into the fundamental principles of molecular biology. These viruses, which are obligate parasites of bacteria, have been instrumental in the development of molecular genetic techniques and in understanding the basic mechanisms of infection, replication, and evolution. The molecular biology of bacteriophages is a rich area of research, with implications for both fundamental science and biotechnology.

Weak Crop Relating: Genomic and Breeding Resources

Chittaranjan Kole

The relationship between crop species and their wild relatives is a complex one, with significant implications for agricultural productivity and sustainability. The study of crop genetics and genomics has become increasingly important as a means of identifying and exploiting the genetic diversity that exists within these species. This book provides a comprehensive overview of the genomic and breeding resources that are available for a wide range of crop species, with a focus on the molecular tools and techniques that are being used to unlock the full potential of these resources.

Dictionary of DNA and Genome Technology

Paul Singleton

This dictionary provides a comprehensive overview of the terminology and concepts that are used in the field of DNA and genome technology. It covers a wide range of topics, from the fundamental principles of genetics and genomics to the advanced techniques that are being used in modern research. The dictionary is aimed at a wide audience, from students and researchers to professionals in the biotechnology industry.

Comparative Animal Biochemistry

Klaus Urich

The study of comparative biochemistry is a fundamental aspect of the understanding of the molecular basis of life. By comparing the biochemistry of different species, scientists can gain insights into the evolutionary relationships between species and the mechanisms that have shaped the diversity of life. This book provides a comprehensive overview of the principles and concepts of comparative biochemistry, with a focus on the molecular basis of life.

ICE: Zooplankton Methodology Manual

Roger Harris

The study of zooplankton is a fundamental aspect of marine biology, with significant implications for the functioning of marine ecosystems. This manual provides comprehensive guidance on the methods and techniques that are used to study zooplankton, with a focus on the sampling and analysis of zooplankton communities. The manual is aimed at a wide audience, from students and researchers to professionals in the field of marine biology.

Journal of the National Cancer Institute

This journal provides a comprehensive overview of the latest research in the field of cancer biology and genetics. It covers a wide range of topics, from the fundamental principles of cancer biology to the advanced techniques that are being used in modern research. The journal is aimed at a wide audience, from students and researchers to professionals in the field of cancer biology.

The study of molecular biology has been a cornerstone of modern science, with significant implications for both fundamental science and biotechnology. The principles and concepts that are covered in this book are essential for anyone who is interested in understanding the molecular basis of life and the mechanisms that govern the diversity of life on Earth.