

EXTRACHROMOSOMAL ELEMENTS IN LOWER EUKARYOTES

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Extrachromosomal Elements In Lower Eukaryotes

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Extrachromosomal Elements In Lower Eukaryotes:

Extrachromosomal Elements in Lower Eukaryotes Reed Wickner, 2012-12-06 *Developmental Biology in Prokaryotes and Lower Eukaryotes* Tomás González Villa, Trinidad de Miguel Bouzas, 2021-07-31 Developmental biology is widely understood as processes which mainly concern embryonic animal development and differentiation of cells and tissue. It is also often defined as the timeline for the evolutionary developmental biology of eukaryotic multicellular higher organisms i.e. plants and animals. The development of prokaryotes and lower eukaryotes in contrast has been neglected for a long time which was the motivation for publishing this book. This book highlights one of Darwin's most important findings: Evolution is a creative but not a conscious process. It also illustrates that this concept does not only apply to multicellular higher organisms but affects every form of life. The reader shall find complex biochemical and genetic pathways of bacteria, yeasts or protozoa comparable to those exhibited by plants or animals. The molecular mechanisms of dramatic genome rearrangements, recombination and horizontal gene transfer that are responsible for evolutionary adaptations are discussed. Additionally, the book covers bacteria of the genera *Myxobacteriales* and *Caulobacteriales* which are able to develop tissue-like cellular organization. The morphogenesis of entomopathogenic fungi and the endosymbiont theory are also addressed. The book is a useful introduction to the field for junior scientists interested in bacteriology, protistology and fungal development. It is also an interesting read for advanced scientists giving them a broader view of the field beyond their area of specialization.

Fungal Physiology David H. Griffin, 1996-06-22 Thoroughly revised this edition summarizes the field of fungal physiology from a dynamic experimental perspective. Integrates molecular genetics with biochemistry and development of fungi. Reorganized into 14 chapters it describes the latest contemporary experimental approaches to fungal research as well as future developments.

Endosymbionts in Paramecium Masahiro Fujishima, 2009-06-12 Endosymbiosis is a primary force in eukaryotic cell evolution. In order to understand the molecular mechanisms involved in this mutualistic relationship, experiments to reproduce endosymbiosis are indispensable. The ciliate *Paramecium* is an ideal host for performing such studies. Topics presented in this volume are the origins of algal and bacterial symbionts in *Paramecium*, the diversity of endosymbiotic bacteria such as *Holospira* bacteria and especially *Chlorella* species as well as the infection and maintenance processes. The metabolic control, the regulation of circadian rhythms and photobiological aspects of the mutualistic association as well as the killer effect of *Paramecium* and its causative agents are further points discussed.

Viruses of Fungi and Simple Eukaryotes Y. Koltin, 1988-04-29 *Viruses of Fungi and Simple Eukaryotes* focuses on the developments in and experimental approaches to the study of fungi and simple eukaryotic viruses. Emphasizing molecular biology and genetics, the book provides the first comprehensive description of lower eukaryotic viruses. Featuring the work of more than 45 international authorities, the book includes more than 1 000 citations, numerous illustrations, tables and micrographs. It discusses both retrovirus and reovirus systems in simple eukaryotes and examines

how simple eukaryotes can serve as important models for research in eukaryotic molecular and cell biology The book also covers a diverse group of RNA and DNA viruses describes possible applications of fungi and simple eukaryotes to biotechnological agricultural and medicinal products and explains the significance of lower eukaryotic viruses to biological control Key topics covered include protein secretion and processing nucleic acid enzymology yeast biology plant pathology and human pathogenic yeast killer systems

Molecular Basis of Symbiosis Jörg Overmann, 2006-04-28 Symbiotic associations involving prokaryotes occur ubiquitously and are ecologically highly significant In symbiotic associations co evolution of the partner organisms has led to specific mechanisms of signal exchange and reciprocal regulation and resulted in novel physiological capabilities of the association as compared to those of the individual partners Symbiosis research has recently entered an exciting era because molecular biology techniques are available for studying partner organisms in association and in a culture independent manner It is the goal of this book to contribute towards a broader perspective and an understanding of the function of symbiotic systems 14 different model systems have been chosen comprising well known symbioses as well as novel experimental systems which have only recently become amenable to experimental manipulation

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1989 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Cumulated Index Medicus, 1977

Functional Organization of The Nucleus, 1992-02-03 Functional Organization of The Nucleus Plant Transposable Elements O. Nelson, 2012-12-06 Transposon tagging can work Even though most of our understanding about the factors that contribute to a successful tagging experiment has been accumulated from a limited number of experiments using different transposable elements in different genetic backgrounds it is still possible to draw some conclusions regarding the best experimental strategies for gene tagging In our experience Spm has proved to be a good element for transposon tagging The frequency of recovering mutable alleles induced by Spm is not significantly different from that for Ac Ds or for Mu 6 summarized in Ref 22 and varies from about 10 to 10⁻⁸ Spm has the unique advantage however in that all of the members of this family that have been examined thus far are homologous to each other at the DNA level Therefore by combining molecular analysis with genetic segregation it is possible to identify and isolate alleles that are due to insertions of either autonomous or nonautonomous Spm elements There are definite steps one can take to increase the chances of detecting a transposition into the gene of interest The most important step is to select a genetic background in which the desired phenotype will be easy to screen If the phenotype is not likely to be mutable then tester lines should be constructed so as to contain flanking markers that can aid in subsequent segregation analyses

The Centrosome in Cell Replication and Early Development, 2000-09-26 Centrosomes play an integral role in the growth of cells and the ultimate development of many animals and sometimes plants In addition to the normal growth of cells centrosomes can also play a key role in the spread of cancer and are of increased interest to both the genetics and oncology communities Volume 49 of Current Topics in

Developmental Biology will present all known research surrounding the centrosome across a variety of systems will be well referenced and speculate where the research is headed Discusses centrosomes and cancer centrosomes and early development and molecular biology of the centrosome Heavily illustrated with many color figures Chapters written by international leaders in the field JNCL, Journal of the National Cancer Institute National Cancer Institute (U.S.),1986

Phenotypic Variation in Populations Avril Woodhead,2012-12-06 The human race has enormous heterogeneity founded on genetic and environmental sources Variability therefore is a vital dimension in any consideration of human risk assessment In the estimation of risks current methods of extrapolation based upon converting the response of a median man are inadequate as they ignore phenotypic variation and therefore susceptible subgroups There is a growing literature defining the extent of human variation in normal populations thus the normal young adult population may have 10-20% known hyperreactors How far can we ignore human variability in risk assessment Should we be concerned with susceptible groups and how can we modify the risk assessment analysis accordingly The aim of our meeting was to bring together experts from the fields of human epidemiology toxicology aging genetics carcinogenesis and teratology and to provide a forum in which we might assimilate knowledge of human heterogeneity as a coherent whole Since the resolution and obligations of risk assessment in the last analysis are a political process we also involved representatives from the legal field the unions and the regulatory agencies We are most grateful for financial support from the National Institute on Aging the U S Environmental Protection Agency the U S Department of Energy FDA National Center for Toxicological Research The Council for Tobacco Research USA Inc Johnson and Johnson Merck Sharp and Dohme Research Laboratories and Associated Universities Inc We thank our Symposium Coordinator Ms

Molecular Biology and Genetic Engineering of Yeasts Henri Heslot,2018-01-18 Molecular Biology and Genetic Engineering of Yeasts presents a comprehensive examination of how yeasts are used in genetic engineering The book discusses baker's yeast in addition to a number of unconventional yeasts being used in an increasing number of studies 175 figures help illustrate the information presented Topics discussed include yeast transformation yeast plasmids protein localization and processing in yeast protein secretion various aspects of *Saccharomyces cerevisiae* and heterologous expression and secretion *Energy Research Abstracts* ,1988

Bacterial Diversity and Systematics F.G. Priest,Alberto Ramos-Cormenzana,B.J. Tindall,2012-12-06 Bacterial taxonomy as a specialized discipline is practised by a minority but the applications of taxonomy are important to most if not all microbiologists It is the implementation of taxonomic ideas and practices which gives rise to identification and typing systems procedures for the analysis and characterization of biodiversity hypotheses about the evolution of microorganisms and improved procedures for the isolation and implementation of bacteria in biotechnological processes Without taxonomic theory providing a sound basis to these many facets of microbiology there would be severe problems faced by many scientists working with microorganisms Taxonomy comprises three sequential but independent processes classification nomenclature

and identification The first two stages are the prime concern of the specialist taxonomist but the third stage should result in identification schemes of value to all microbiologists As the classification and identification of micro organisms improves largely due to the introduction of new technologies so does its contribution to the subject as a whole It therefore seemed timely to hold a conference in the autumn of 1993 devoted to microbial identification Such a topic could not be addressed without some reference to the enabling discipline of classification but the principal aims were to assess improvements in identification and typing and how these were benefiting microbiological topics ranging from ecological and biotechnological studies of extremophilic bacteria to the use of pyrolysis mass spectrometry in epidemiology The meeting which was held in Granada Spain was supported by FEMS FEMS Symposium No **The Cytoskeleton of the Algae** Diedrik

Menzel, 2024-12-20 The Cytoskeleton of the Algae provides a comprehensive examination of the structural features of the cytoskeleton in phylogenetic branches of algae The book also analyzes the possible functions of cytoskeletal components using structural physiological genetic and molecular approaches Many taxa are described in detail mirroring the dramatic progress that has been made in recent years in this new research field Many unique structural elements and motility phenomena are described for the first time and other features common to all plant cells such as cell polarity cytoplasmic streaming mitosis cell wall deposition and contractile events are analyzed using algae as experimental model systems The Cytoskeleton of the Algae reflects the enormous impact that research on the algal cytoskeleton has on both phycology and plant cell biology and it will serve as an excellent reference volume for researchers in this area *Paramecium* Hans-Dieter Görtz, 2012-12-06 Why a Book on Paramecium Biologists usually concentrate their efforts on a single problem and a single organism There is a difficulty with this practice however for as work on a problem proceeds it often becomes more advantageous to study the problem in another organism Some biologists avoid the difficulty by moving from one organism to the other as the problem demands However this tactic also has a disadvantage for a thorough knowledge of the life cycle and thorough mastery of ways to handle a given organism in the laboratory are obviously of great importance to the researcher and one can never know several organisms as well as one can know a single one Another way of doing research is to pick the organism learn all one can about it from all points of view and then assess the significance of the findings Tracy Sonneborn practiced research in very much this way He would have found virtually every chapter in this volume about Paramecium a fascinating summary of one of his areas of research Indeed the beginnings of most of the topics in this book are founded on his studies With every new fact he learned about Paramecium he carefully assessed the significance of his findings not only for research on protozoa but for biology in general His work and in a way this book too are indicative of the success of his strategy **Ecological Stoichiometry** Robert W. Sterner, James J. Elser, 2017-02-15 All life is chemical That fact underpins the developing field of ecological stoichiometry the study of the balance of chemical elements in ecological interactions This long awaited book brings this field into its own as a unifying force in ecology and evolution Synthesizing a

wide range of knowledge Robert Sterner and Jim Elser show how an understanding of the biochemical deployment of elements in organisms from microbes to metazoa provides the key to making sense of both aquatic and terrestrial ecosystems After summarizing the chemistry of elements and their relative abundance in Earth's environment the authors proceed along a line of increasing complexity and scale from molecules to cells individuals populations communities and ecosystems The book examines fundamental chemical constraints on ecological phenomena such as competition herbivory symbiosis energy flow in food webs and organic matter sequestration In accessible prose and with clear mathematical models the authors show how ecological stoichiometry can illuminate diverse fields of study from metabolism to global change Set to be a classic in the field Ecological Stoichiometry is an indispensable resource for researchers instructors and students of ecology evolution physiology and biogeochemistry From the foreword by Peter Vitousek This book represents a significant milestone in the history of ecology Love it or argue with it and I do both most ecologists will be influenced by the framework developed in this book There are points to question here and many more to test And if we are both lucky and good this questioning and testing will advance our field beyond the level achieved in this book I can't wait to get on with it

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