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## CYNTHIA RIOS

The Character Concept in Evolutionary Biology S. Chand Publishing

Almost all evolutionary biologists, indeed all biologists, use particular features to study life. These characteristics or features used by evolutionary biologists are used in a particular way to unravel a tangled evolutionary history, document the rate of evolutionary change, or as evidence of biodiversity. "Characters" are the "data" of evolutionary biology and they can be employed differently in research providing both opportunities and limitations. The Character Concept in Evolutionary Biology is about characters, their use, how different sorts of characters are limited, and what are appropriate methods for character analysis. Leading evolutionary biologists from around the world are contributors to this authoritative review of the "character concept." Because characters and the conception of characters are central to all studies of evolution, and because evolution is the central organizing principle of biology, this book will appeal to a wide cross-section of biologists. Focuses upon "characters" -- fundamental data for evolutionary biology Covers the myriad ways in which characters are defined, described, and distinguished Includes historical, morphological, molecular, behavioral, and philosophical perspectives

**History of Research on Nitrogen Fixation in Soybeans (1887-2018)** Springer Science & Business Media

This book is especially prepared for the students of B.Sc. and M.Sc. of different Indian Universities as per UGC Model Curriculum. Students, preparing for Medical Entrance Examination, IAS, IFS, and PCS etc. will also be benefited by this book. At the end of some chapters of Genetic Engineering may enlighten the target readers. Entirely new information on Quantitative Genetics and Immunogenetics may enthral the readers. MCQ's ans answers will also be helpful for the students to strngthen their self confidence. By the help of numerous figures, many tables, boxes and coloured photographs, this book has tried to serve a balanced account of Classical Genetics and Modern Molecular Genetics. • This book is for Graduate, P.G. students of Biophysics, Microbiology& Biological Sciences.

**Inducible Plant Proteins** Cell Biology, Genetics, Molecular Biology, Evolution and Ecology

The National Botanical Research Institute came into being as the 13th among a chain of National

Laboratories established during April, 1953 under the Council of Scientific and Industrial Research by the Govt. of India for advanced research in fields of specialisation which have a direct bearing on socio-economic, industrial and scientific advancement of the nation. Christened initially as National Botanic Gardens, the nucleus around which the institution took shape under its founder- Director Late Prof. K. N. Kaul, was a large herbarium of Indian flora and a centu- old botanical garden spread over 35 ha of land on the banks of River Gomti in the heart of Lucknow city. It's a matter of great pleasure and profound satisfaction to me that a Golden Jubilee volume entitled, "Pteridology in the New Millennium" is being published and released during the Golden Jubilee year of NBRI in the honour of Professor B. K. Nayar who laid the foundation of the Pteridology Laboratory of the NBRI, which is now a well equipped laboratory for the study of Indian pteridophytes. Professor Nayar is a holistic Botanist as evident through his contributions and publications in almost all the areas of study of Pteridophyta. The contribution of Professor Nayar towards the development of modern Pteridology and the role of NBRI in it is indeed great and very important. His publications will be valuable for the younger generation of scientists in the field as well as for the more mature research workers and teachers.

*Plant Nutrition — Molecular Biology and Genetics* Academic Press

The flexible filamentous plant viruses are responsible for more than half of all agricultural loss worldwide. Potexvirus is one of the two most important flexible filamentous plant viruses. Bamboo mosaic virus (BaMV), a single-stranded positive-sense RNA virus, is a member of the Potexvirus genus of Alphaflexiviridae. It can infect at least 12 species of bamboo, causing a huge economic impact on the bamboo industry in Taiwan. The study of BaMV did not start extensively until the completion of the full-length sequencing of genomic RNA of BaMV and generation of the BaMV infectious cDNA clone in the early 1990s. Since then, BaMV has been extensively studied at the molecular, cellular and ecological level, covering both basic and applied researches, by a group of researchers in Taiwan. In this eBook, the content comprises 6 reviews and 4 articles. Seven of them are involved in the infection of BaMV covering viral RNA replication, viral RNA trafficking, and the host factors. Two of them are related to the vector transmission and the ecology of BaMV. The last one is the application of using BaMV as a viral vector to produce vaccines in plants.

*From Field Observations to Mechanisms* Springer Science & Business Media

The world's most comprehensive, well documented and well illustrated book on this subject. With

extensive subject and geographic index. 152 photographs and illustrations - mostly color, Free of charge in digital format on Google Books.

**Evolution and Ecology** Springer Science & Business Media

In the preface to the first edition of this book, we expressed a conviction that there was a need for a short book that highlighted important advances in the new discipline of plant molecular biology. The rapid development of this topic has been brought about by the recognition of the unique properties of plants in the study of growth and development together with the application of recombinant DNA techniques to tackle these problems. Plant cells contain DNA in nuclei, plastids and mitochondria, and so offer the unique challenge of studying the interaction of three separate genetic systems in a single organism. The molecular approach has provided, in recent years, a wealth of important information about how plants function, and how they interact with bacteria, fungi and viruses. Furthermore, plant development involves the regulation of gene expression in response to internal and external signals, and plant molecular biology has provided a fundamental insight into how this development is regulated. This is not only of considerable scientific interest, but also has important implications for the production of plants and plant products in agriculture, horticulture and the food industries.

**Ecology and Evolutionary Biology of Clonal Plants** Academic Press

This volume examines the molecular basis of all aspects of cell division and cytokinesis in plants. It features 19 chapters contributed by world experts in the specific research fields, providing the most comprehensive and up-to-date knowledge on cell division control in plants. The editors are veterans in the field of plant molecular biology and highly respected worldwide.

**Essential Developmental Biology** Soyinfo Center

The revised edition of this bestselling textbook provides latest and detailed account of vital topics in biology, namely, Cell Biology, Genetics, Molecular Biology, Evolution and Ecology. The treatment is very exhaustive as the book devotes exclusive parts to each topic, yet in a simple, lucid and concise manner. Simplified and well labelled diagrams and pictures make the subject interesting and easy to understand. It is developed for students of B.Sc. Pass and Honours courses, primarily. However, it is equally useful for students of M.Sc. Zoology, Botany and Biosciences. Aspirants of medical entrance and civil services examinations would also find the book extremely useful.

**Cell Biology, Genetics, Molecular Biology, Evolution and Ecology** S. Chand Publishing

Essential Developmental Biology is a comprehensive, richly illustrated introduction to all aspects of developmental biology. Written in a clear and accessible style, the third edition of this popular textbook has been expanded and updated. In addition, an accompanying website provides instructional materials for both student and lecturer use, including animated developmental processes, a photo gallery of selected model organisms, and all artwork in downloadable format. With an emphasis throughout on the evidence underpinning the main conclusions, this book is an essential text for both introductory and more advanced courses in developmental biology. Shortlisted for the Society of Biology Book Awards 2013 in the Undergraduate Textbook category. Reviews of the Second Edition: "The second edition is a must have for anyone interested in development biology. New findings in hot fields such as stem cells, regeneration, and aging should make it attractive to a wide readership. Overall, the book is concise, well structured, and illustrated.

I can highly recommend it." —Peter Gruss, Max Planck Society "I have always found Jonathan Slack's writing thoughtful, provocative, and engaging, and simply fun to read. This effort is no exception. Every student of developmental biology should experience his holistic yet analytical view of the subject." —Margaret Saha, College of William & Mary

**Current Topics in Biotechnology** Springer Science & Business Media

This series was established to create comprehensive treatises on specific topics in developmental biology. Such volumes serve a useful role in developmental biology, which 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 comprised of chapters selected 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 specialty and be able to place that body of information in context, in order to ascertain where additional research would be fruitful. The creative process then generates new experiments. This series is intended to be a vital link in that ongoing process of learning and discovery.

**Mycorrhiza** Princeton University Press

The revised edition of this bestselling textbook provides latest and detailed account of vital topics in biology, namely, Cell Biology, Genetics, Molecular Biology, Evolution and Ecology. The treatment is very exhaustive as the book devotes exclusive parts to each topic, yet in a simple, lucid and concise manner. Simplified and well labelled diagrams and pictures make the subject interesting and easy to understand. It is developed for students of B.Sc. Pass and Honours courses, primarily. However, it is equally useful for students of M.Sc. Zoology, Botany and Biosciences. Aspirants of medical entrance and civil services examinations would also find the book extremely useful.

**In Search of the Causes of Evolution** MD Pub Pvt Limited

..... G. Schneider, Y. Lindqvist, C. -I. Branden and G.

**Structure, Function, Molecular Biology and Biotechnology** Academic Press

"A concise account of what we know about development discusses the first vital steps of growth and explores one of the liveliest areas of scientific research."--P. [2] of cover.

**Essays on Developmental Biology** Springer Science & Business Media

The development of the cardiovascular system is a rapidly advancing area in biomedical research, now coupled with the burgeoning field of cardiac regenerative medicine. A lucid understanding of these fields is paramount to reducing human cardiovascular diseases of both fetal and adult origin. Significant progress can now be made through a comprehensive investigation of embryonic development and its genetic control circuitry. Heart Development and Regeneration, written by experts in the field, provides essential information on topics ranging from the evolution and lineage origins of the developing cardiovascular system to cardiac regenerative medicine. A reference for clinicians, medical researchers, students, and teachers, this publication offers broad coverage of the most recent advances. Volume One discusses heart evolution, contributing cell lineages; model systems; cardiac growth; morphology and asymmetry; heart patterning; epicardial, vascular, and lymphatic development; and congenital heart diseases. Volume Two includes chapters on

transcription factors and transcriptional control circuits in cardiac development and disease; epigenetic modifiers including microRNAs, genome-wide mutagenesis, imaging, and proteomics approaches; and the theory and practice of stem cells and cardiac regeneration. Authored by world experts in heart development and disease New research on epigenetic modifiers in cardiac development Comprehensive coverage of stem cells and prospects for cardiac regeneration Up-to-date research on transcriptional and proteomic circuits in cardiac disease Full-color, detailed illustrations

*History of Soybean Variety Development, Breeding and Genetic Engineering (1902-2020)* S. Chand Publishing

This work, comprising two volumes, reviews recent advances in plant developmental biology and explores the possibility of their biotechnological applications. The work is a key reference for plant breeders, researchers and graduate students.

*Current Topics in Developmental Biology* Springer

The second edition of Mycorrhiza falls into a time period of exceptionally rapid growth in mycorrhizal research. Therefore the editors have been most pleased with the decision of the Springer Verlag to revise the first edition and to incorporate the remarkable advances experienced in the mycorrhizal field. The pace of discovery has been particularly fast at the two poles of biological complexity, the molecular events leading to changes in growth and differentiation, as well as the factors regulating the structure and diversity of natural populations and communities.

Therefore the most significant changes introduced in the new edition of this book are found within these topics. Not only were many chapters updated, but also new chapters have replaced existing ones. The individual decisions have not been easy, since valuable contributions had to be sacrificed in favour of new aspects; but the authors hope that a highly topical new edition will be of greatest benefit for a rapidly expanding field of research. We welcome comments and critics from readers. Since it was possible again to find leading scientists as contributors, we are confident that this revised second edition will stimulate further progress and contribute to a deeper understanding of advances in the mycorrhizal field. We are grateful to the Springer Verlag, especially Dr. Dieter Czeschlik, for his continued interest and active help. Dr. Maja Hilber-Bodmer and Dr.

*Plant Molecular Biology* John Wiley & Sons

The sixth International Symposium on Genetics and Molecular Biology of Plant Nutrition was held in Elsinore, Denmark from August 17-21, 1998 and organised by the RiSO National Laboratory in the year of its 40 anniversary. The 98 participants represented 23 countries and 80 scientific contributions with 43 oral and 37 poster presentations. The symposium addressed the molecular mechanisms, physiology and genetic regulation of plant nutrition. The Symposium brought together scientists from a range of different disciplines to exchange information and ideas on the molecular biology of mineral nutrition of plants. The symposium emphasised:

- Bridging the gap between

- molecular biology, applied genetics, plant nutrition and plant breeding.
- The development of methodologies to improve the efficiency and effectiveness of nutrition of plants
- Quality of plant products. With sessions on: Nitrogen; Phosphorous; Micronutrients; Symbiosis; Membranes; Stress; Heavy Metals and Plant Breeding. In comparison with the previous conferences in this series more emphasis was placed on use of molecular techniques to clarify physiological mechanisms and processes, gene expression and regulation, as well as genetic marker assisted analysis. Significant of molecular genetic markers and other progress was reported in exploitation biotechnologies in breeding programmes.

**Heart Development and Regeneration** S. Chand Publishing

Grapevine is one of the major cultivated plant crops. As with most woody plant species, molecular biology and biotechnology have progressed at a slow pace, due to several obstacles which have had to be overcome. However, substantial progress has now been made and useful information has been accumulated in the literature; numerous genes have been characterized from grapevine and significant progress has been made in the molecular and non-molecular biotechnological applications. In an effort to collect and present the state of the art on grapevine molecular biology and biotechnology, 41 scientists from 12 countries worked jointly on the preparation of this book. It is intended as a reference book for viticulturists, graduate and undergraduate students, biotechnological companies, and any scientist who is interested in molecular biology and biotechnology of plants with emphasis on grapevine.

**Proceedings of Clone-2000. An International Workshop held in Obergurgl, Austria, 20-25 August 2000** Frontiers Media SA

In 2016 Current Topics in Developmental Biology (CTDB) will celebrate its 50th or "golden anniversary. To commemorate the founding of CTDB by Aron Moscona (1921-2009) and Alberto Monroy (1913-1986) in 1966, a two-volume set of CTDB (volumes 116 and 117), entitled Essays on Development, will be published by Academic Press/Elsevier in early 2016. The volumes are edited by Paul M. Wassarman, series editor of CTDB, and include contributions from dozens of outstanding developmental biologists from around the world. Overall, the essays provide critical reviews and discussion of developmental processes for a variety of model organisms. Many essays relate the history of a particular area of research, others personal experiences in research, and some are quite philosophical. Essays on Development provides a window onto the rich landscape of contemporary research in developmental biology and should be useful to both students and investigators for years to come. Covers the area of developmental processes for a variety of model organisms International board of authors Part of two 50th Anniversary volumes providing a comprehensive set of reviews edited by Serial Editor Paul M. Wassarman

*Phylogenomic Approaches to Deal with Particularly Challenging Plant Lineages* CRC Press  
Cell Biology, Genetics, Molecular Biology, Evolution and Ecology  
S. Chand Publishing