

Sexual Interactions In Plants The Role Of Specific Substances In Sexual Reproduction

Uniform Trade List Annual - 1977

The Molecular Biology of Plant Development - Harry Smith 1982-01-01

Catalogs of the Scripps Institution of Oceanography Library - Scripps Institution of Oceanography. Library 1980

Encyclopedia of Ecology - Brian D. Fath 2014-11-03

The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology, from general to applied. It includes over 500 detailed entries, structured to provide the user with complete coverage of the core knowledge, accessed as intuitively as possible, and heavily cross-referenced. Written by an international team of leading experts, this revolutionary encyclopedia will serve as a one-stop-shop to concise, stand-alone articles to be used as a point of entry for undergraduate students, or as a tool for active researchers looking for the latest information in the field. Entries cover a range of topics, including: Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology, from basic to applied Over 500 concise, stand-alone articles are written by prominent leaders in the field Article text is supported by full-color photos, drawings, tables, and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non-expert Available electronically on ScienceDirect shortly upon publication

Advances in Microbial Physiology - 1993-01-13

Advances in Microbial Physiology
An Introduction to Mycology - R. S. Mehrotra 1990
The Book Incorporates In A Comparative Manner The Various Important Classifications Of Fungi Given By Different Workers. It Deals With The Morphology, Taxonomy, Life Cycles Of Various Groups Of Fungi And Also Includes The Disease Cycle And Control Measures Of Fungal Pathogens, Responsible For Causing Diseases Of National As Well As International Importance. The Book Has Been Written To Cater To The Needs Of Honours And Postgraduate Students Of Indian Universities. The Aim Of The Book Is To Bring In All The Recent Information In Fungi In One Volume. General Topics Like Heterothallism, Parasexual Cycle, Sex Hormones, Evolutionary Tendencies In Lower Fungi, Evolution Of Conidium From A Sporangium, Sexuality In Ascomycetes With Special Reference To Degeneration And Modification Of Sex Organs, Phylogeny Of Fungi Have Been Discussed At Length. Important Topics Like Ecology, Economic Importance Of Fungi In Various Ways, Applications Of Fungi In Biotechnology And Fungi As Symbionts Of Photobionts, Plants And Insects Has Also Been Discussed In Detail. Appendices Like Important Text And Reference Books, Mycological Journals, Fungal Culture Collection Centres Of The World, Mounting Media And Common Culture Media For Fungi Have Been Included.

Choice - 1978

The Dictyostelids - Kenneth Bryan Raper 2014-07-14

Kenneth Raper tells how dictyostelids are isolated, cultivated, and conserved in the laboratory; how myxamoebae aggregate to form multicellular pseudoplasmodia; how fructifications arise by transformation of amoeboid cells into stalk cells and spores; and how similar cells can, under certain conditions,

enter a sexual phase. For each known dictyostelid Professor Raper includes a complete description and photographic illustrations; one new species is described. Originally published in 1984. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Secondary Metabolism and Differentiation in Fungi - Bennett 1983-07-21

The first source to unite secondary fungal metabolism and morphogenesis in one volume, *Secondary Metabolism and Differentiation in Fungi* treats biological systems as parts of a whole rather than as a series of individual elements, highlighting research in genetics, molecular biology, and ecology. Featuring the expertise of 19 international authorities, each chapter is a rich source of experimentation ideas. The book facilitates the application of novel techniques to existing problems in molecular mycology and explores potentials for major new research. This indispensable guide to a key scientific field benefits biologists, chemists, and other scientists.

Mutualistic Interactions between Flowering Plants and Animals - Palatty Allesh Sinu 2016-03-01

The plant-animal interactions, both mutualistic and antagonistic, play a crucial role in the diversification of plants and animals, and are important in functioning of communities in their natural habitats. The mutual interactions between the flowering plants and the animals, in pollination and seed dispersal, largely determine the reproductive success of the flowering plants. Maintenance of these eco-services is critical for the sustainability of our biodiversity. India, with its rich biodiversity and leveling of crop yields in recent years would benefit from research in the area of plant-animal interactions. This volume includes chapters on various aspects of mutualistic plant-animal interactions. In

particular the fundamental and applied aspects of ecoservices – pollination and seed dispersal are covered comprehensively. It also covers tritrophic interaction and the potential of genomics in studies on the plant-animal interactions. The book will be of interest to post-graduate students, teachers and researchers in the areas of Biology, Ecology, Botany, Zoology, Agri-horticulture, Forestry, and Conservation Biology.

Experimental Botany - H. van den Ende 1976

Neurobiology of Chemical Communication - Carla Mucignat-Caretta 2014-02-14

Intraspecific communication involves the activation of chemoreceptors and subsequent activation of different central areas that coordinate the responses of the entire organism—ranging from behavioral modification to modulation of hormones release. Animals emit intraspecific chemical signals, often referred to as pheromones, to advertise their presence to members of the same species and to regulate interactions aimed at establishing and regulating social and reproductive bonds. In the last two decades, scientists have developed a greater understanding of the neural processing of these chemical signals. *Neurobiology of Chemical Communication* explores the role of the chemical senses in mediating intraspecific communication. Providing an up-to-date outline of the most recent advances in the field, it presents data from laboratory and wild species, ranging from invertebrates to vertebrates, from insects to humans. The book examines the structure, anatomy, electrophysiology, and molecular biology of pheromones. It discusses how chemical signals work on different mammalian and non-mammalian species and includes chapters on insects, *Drosophila*, honey bees, amphibians, mice, tigers, and cattle. It also explores the controversial topic of human pheromones. An essential reference for students and researchers in the field of pheromones, this is also an ideal resource for those working on behavioral phenotyping of animal models and persons interested in the biology/ecology of wild and domestic species.

Mycology and Microbiology (A Textbook for UG and PG Courses) - C. Manoharachary 2016-05-01

Fungi and microbes have predominant influence in our lives. They are directly or indirectly involved in generating the food we eat and drink, besides providing life saving pharmaceutical products, including the sources of enzymes. They play a vital role in recycling of organic matter and several ecological processes. Both fungi and microbes have contributed several billion dollars worth of technological products. For instance: yeast is used in brewing and bakery, *Lactobacillus* ferments milk to yoghurt and a number of edible mushrooms are rich in nutrients besides possessing many medicinal properties. Bacteria and fungi serve as key organisms in understanding life processes, genetic engineering and as experimental organisms. Therefore, it is necessary to study the biology and biotechnology of these organisms. It is a humble attempt of the authors to make the readers understand the biology and biotechnology of fungi and microbes in a simpler way and also to communicate the recent developments.

The Theory of Sex Allocation. (MPB-18), Volume 18 - Eric L. Charnov 2020-03-31

This book is the first comprehensive treatment of sex allocation from the standpoint of modern evolutionary theory. It shows how the determination of sex ratio, resource allocation to sperm versus egg within simultaneous hermaphroditism, and the evolution of sex reversal can be explained as examples of a single process. The genetical theory, developed mostly with graphical arguments, also specifies when hermaphroditism and dioecy are themselves evolutionary stable. The work balances theory with field and laboratory research, providing critical tests of the theory by empirical studies of sex ratio in parasitoid wasps and mites, sex reversal in shrimp and coral reef fish, and allocation of resources to pollen versus seeds in higher plants. In addition, the author offers an encyclopedic review of the field and laboratory work of other scientists, reviews many as yet untested hypotheses in sex allocation, and points toward numerous plant and animal systems that hold promise for future tests.

Sexual Reproduction in Higher Plants -

Mauro Cresti 1988-12-22

Based on papers presented at the International Symposium on Sexual Reproduction in Higher Plants, this volume covers the topics: micro- and macrosporogenesis, the activation and recognition of mature pollen, pollen germination and tube emission in vivo and in vitro, pollen and pollen tube cytoskeleton, stigma and style morphology, pollen/stigma interactions, incompatibility mechanisms and gene expression. The reinvestigation of classical topics using modern methods such as immunofluorescence, micromanipulation, freeze-substitution, electron microscopy, etc., is the common basis of all results presented. Especially applied aspects of sexual reproduction important e.g. for crop improvement, are discussed in detail.

Cell Division in Higher Plants - Michael Magson Yeoman 1976

Significance of division in the higher plant. The visible events of mitotic cell division. Molecular events of the cell cycle: a preparation for division. The replication of plastids in higher plants. The cell in sporogenesis and spore development. Modification and errors of mitotic cell division in relation to differentiation. The root apex. The shoot apex. Cell division in leaves. The cambium. The role of cell division in angiosperm embryology. Disorganized systems.

Fungal Reproduction and Growth - Sadia Sultan 2022-05-25

One of the largest and most diverse kingdoms in eukaryotes is fungi, which consists of approximately 2.2-3.8 million species. This book provides readers with an in-depth understanding of fungi diversity and the role of fungi in the ecosystem. Chapters address such topics as fungi reproduction and pathology, fungal mycotoxicity, fungi mating mechanisms, and much more.

Mathematics and Plant Physiology - D. A. Rose 1981

Sexual Interactions in Plants - H. van den Ende 1976

Progress in Botany/Fortschritte der Botanik - Heinz Ellenberg 2012-12-06

Sexual Interactions In Plants

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