

Mycetozoans

- “True and Cellular Slime Molds”
- Somewhere between protists and fungi
 - Predatory amoeboid feeding upon bacteria, usually in decaying material
 - Engulfing feeding
 - Reproduction via spores
- 500 species
- Two Major Classes:
 1. Myxogastrea (True slime molds: *Physarum*)
 2. Dictyostelea (Cellular slime molds: *Dictyostelium*)

The Mycetozoans

Mercedes S. Foster, Gerald F. Bills



The Mycetozoans:

The Mycetozoans Lindsay Olive, 2012-12-02 The Mycetozoans brings together for the first time in a single volume comprehensive information on the biology and classification of the mycetozoans and associated groups The mycetozoans and their associates remain of prime interest to taxonomists and phylogenists because major new taxa continue to be discovered among them This book informs the reader where to find mycetozoans how to isolate and culture them their life cycles and ultrastructure and some of the experiments that may be performed with them It presents studies on Protostelia protostelids Dictyostelia dictyostelid cellular slime molds Myxogastria myxomycetes Acrasea acrasid cellular slime molds Plasmodiophorina plasmodiophorids and Labyrinthula labyrinthulina and thraustochytrids This text can serve as a reference tool in courses on mycetozoans protozoology mycology and developmental biology of lower organisms and as a concentrated source of information for research workers in all aspects of the biology and taxonomy of these organisms *The*

Mycetozoans Lindsay Shepherd Olive, 2012 **Biodiversity of Fungi** Mercedes S. Foster, Gerald F. Bills, 2011-04-28 Biodiversity of Fungi is essential for anyone collecting and or monitoring any fungi Fascinating and beautiful fungi are vital components of nearly all ecosystems and impact human health and our economy in a myriad of ways Standardized methods for documenting diversity and distribution have been lacking A wealth of information especially regarding sampling protocols compiled by an international team of fungal biologists make Biodiversity of Fungi an incredible and fundamental resource for the study of organismal biodiversity Chapters cover everything from what is a fungus to maintaining and organizing a permanent study collection with associated databases from protocols for sampling slime molds to insect associated fungi from fungi growing on and in animals and plants to mushrooms and truffles The chapters are arranged both ecologically and by sampling method rather than by taxonomic group for ease of use The information presented here is intended for everyone interested in fungi anyone who needs tools to study them in nature including naturalists land managers ecologists mycologists and even citizen scientists and sophisticated amateurs Covers all groups of fungi from molds to mushrooms even slime molds Describes sampling protocols for many groups of fungi Arranged by sampling method and ecology to coincide with users needs Beautifully illustrated to document the range of fungi treated and techniques discussed Natural history data are provided for each group of fungi to enable users to modify suggested protocols to meet their needs **Ainsworth &**

Bisby's Dictionary of the Fungi Geoffrey Clough Ainsworth, 2008 This 10th edition of the acclaimed reference work has more than 21 000 entries and provides the most complete listing available of generic names of fungi their families and orders their attributes and descriptive terms For each genus the authority the date of publication status systematic position number of accepted species distribution and key references are given Diagnoses of families and details of orders and higher categories are included for all groups of fungi In addition there are biographic notes information on well known metabolites and mycotoxins and concise accounts of almost all pure and applied aspects of the subject including citations of important

literature Co published by Commonwealth Scientific and Industrial Research Organisation CSIRO **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 *Handbook of Industrial Mycology* Zhiqiang An,2004-08-30 Several excellent books have been published that address one or more aspects of the diverse field of industrial mycology but none of them cover the entire process of fungal bioactive metabolites discovery Until now The Handbook of Industrial Mycology provides in one volume an overview of recent developments in industrial mycology with emphasis on the discovery of bioactive metabolites and most importantly their underlying biology and genetics Two additional features distinguish this book from other books in the field 1 most chapters are prepared using experimental data to illustrate theories and 2 the authors provide methodologies and experimental protocols in their chapters Presenting a comprehensive overview of recent advances the book provides a framework of basic methods tools and organizational principles for channeling fungal germplasm into the academic pharmaceutical and enzyme discovery laboratories It covers the complex range of processes involved in the discovery characterization and profiling of bioactive fungal metabolites The book includes examples of several recently marketed fungal metabolites and explores the impact of fungi on applications in the pharmaceutical food and beverage agricultural and agrochemical industries The Social Amoebae John Tyler Bonner,2009-01-18 Noted biologist and author John Tyler Bonner has experimented with cellular slime molds for more than sixty years and he has done more than anyone else to raise these peculiar collections of amoebae from a minor biological curiosity to a major model organism one that is widely studied for clues to the development and evolution of all living things Now five decades after he published his first pioneering book on cellular slime molds Bonner steps back from the proliferating and increasingly specialized knowledge about the organism to provide a broad nontechnical picture of its whole biology including its evolution sociobiology ecology behavior and development The Social Amoebae draws the big lessons from decades of research and shows how slime molds fit into and illuminate biology as a whole Slime molds are very different from other organisms they feed as individual

amoebae before coming together to form a multicellular organism that has a remarkable ability to move and orient itself in its environment Furthermore these social amoebae display a sophisticated division of labor within each organism some cells form the stalk and others become the spores that will seed the next generation In *The Social Amoebae* Bonner examines all these parts together giving a balanced concise and clear overview of slime mold biology from molecules to cells to multicells as he advances some unconventional and unexpected insights

The Molecular Biology of Physarum polycephalum

William F. Dove, Jennifer Dee, Sadashi Hatano, Finn B. Haugli, Karl-Ernst Wohlfarth-Bottermann, 2012-12-06 One landmark in the long history of biological studies on the slime mold *Physarum polycephalum* was the introduction of chemically defined growth conditions for the plasmodial phase of this organism in the laboratory of Harold P. Rusch in Wisconsin in the 1950s A number of investigators began working with *Physarum* in that era then dispersed over the world In the 1950s to 1960s the regular meetings of *Physarum* workers in North America were commonly held in Wisconsin Strong new scientific initiatives in *Physarum* have grown up independently from the disciplines of genetics cytology photobiology and biophysics in countries scattered over the world from Japan to Poland Germany France the Netherlands Norway Spain Turkey and Great Britain Infusion of the technical power of contemporary molecular biology in particular gene cloning and monoclonal antibodies has brought these dispersed investigators into mutual communication It was therefore timely and appropriate to assemble the *Physarum* community again in Wisconsin after a hiatus of 20 years at a conference in the Friedrich Conference Center at the University of Wisconsin Madison from July 8 to 13 1985

The Evolution of Multicellularity Matthew D. Herron, Peter L.

Conlin, William C. Ratcliff, 2022-06-07 Among the most important innovations in the history of life is the transition from single celled organisms to more complex multicellular organisms Multicellularity has evolved repeatedly across the tree of life resulting in the evolution of new kinds of organisms that collectively constitute a significant portion of Earth's biodiversity and have transformed the biosphere This volume examines the origins and subsequent evolution of multicellularity reviewing the types of multicellular groups that exist their evolutionary relationships the processes that led to their evolution and the conceptual frameworks in which their evolution is understood This important volume is intended to serve as a jumping off point stimulating further research by summarizing the topics that students and researchers of the evolution of

multicellularity should be familiar with and highlighting future research directions for the field

Life Under the Sun

Peter A. Ensminger, 2008-10-01 Which fungus is as sensitive to light as the human eye What are the myths and facts about the ozone hole tanning skin cancer and sunscreens What is the effect of light on butterfly copulation This entertaining collection of essays explores how various organisms including archaeobacteria slime molds fungi plants insects and humans sense and respond to sunlight The essays in Peter A. Ensminger's book cover vision photosynthesis and phototropism as well as such unusual topics as the reason why light causes beer to develop a skunky odor He introduces us to the kinds of eyes that have evolved in different animals including those in a species of shrimp that is ostensibly eyeless gives us a better

appreciation of color vision explains how plowing fields at night may be used to control weeds and tells about variegated porphyria a metabolic disease that makes people very sensitive to sunlight and may have afflicted King George III of England These engaging essays present a complicated yet fascinating subject in an accessible way The book will be treasured by anyone interested in the wonders of biology

An Introduction to Mycology R. S. Mehrotra, K. R. Aneja, 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

The Fifth Kingdom Bryce Kendrick, 2017-08-14 This new edition of The Fifth Kingdom has been updated to reflect the most recent developments in mycology including the field's adoption of a new taxonomical framework for fungi as a whole and the latest advances in molecular genetics The chapter on fungicides has been updated to include new discoveries The discussion of poisonous mushrooms has been revised to include newly recognized types and treatments of mushroom poisoning Chapters on medical aspects of mycology and practical uses for fungi have been expanded Entirely new chapters on applications of mycological training among other topics are all written with Kendrick's characteristic clarity warmth and humor the qualities that have helped establish The Fifth Kingdom as one of the best and most engaging introductions to mycology Now in full color and offering a wealth of new illustrations this edition also provides readers with access to Bryce Kendrick's extensive online collection of photographs charts and other visual resources

The Evolution of Individuality Leo W. Buss, 2014-07-14 Leo Buss expounds a general theory of development through a simple hierarchical extension of the synthetic theory of evolution He perceives innovations in development to have evolved in ancestral organisms where the germ line was not closed to genetic variation arising during the course of ontogeny Originally published in 1988 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 Myxomycetes Carlos Rojas, Steven L. Stephenson, 2021-09-19 *Myxomycetes Biology Systematics Biogeography and Ecology Second Edition* provides a complete collection of general and technical information on myxomycetes microorganisms Its broad scope takes an integrated approach considering a number of important aspects surrounding their genetics and molecular phylogeny The book treats myxomycetes as a distinct group from fungi and includes molecular information that discusses systematics and evolutionary pathways Written and developed by an international team of specialists this second edition contains updated information on all aspects of myxomycetes It incorporates relevant and new material on current barcoding developments plasmodial network experimentation and non STEM disciplinary assimilation of myxomycete information This book is a unique and authoritative resource for researchers in organismal biology and ecology disciplines as well as students and academics in biology ecology microbiology and similar subject areas Cover image used with permission from Steve Young Photography Written in a simple concise and relatively non technical style allowing for a broad readership within biological environmental and life science programs at academic and research institutions Contains the comprehensive body of information available on myxomycetes under one cover with contributions from the leading authorities in their respective areas of expertise Provides straightforward compiled information about myxomycetes and the potential of this group for basic and applied research Offers completely updated material in every chapter including new material on barcoding and *Physarum polycephalum* biological factors Protist Diversity and Geographical Distribution W. Foissner, David Leslie Hawksworth, 2009-07-24 Conservation and biodiversity of protists The conservation of biodiversity is not just an issue of plants and vertebrates It is the scarcely visible invertebrates and myriads of other microscopic organisms that are crucial to the maintenance of ecological processes on which all larger organisms and the composition of the atmosphere ultimately depend Biodiversity and Conservation endeavours to take an holistic view of biodiversity and when the opportunity arises to issue collections of papers dealing with too often neglected groups of organisms The protists essentially eukaryotes that cannot be classified in the kingdoms of animals fungi or plants include some of the least known groups of organisms on earth They are generally treated as a separate kingdom commonly named Protista or Protoctista in textbooks but in reality they are a mixture of organisms with disparate attributes Some authors have hypothesized that the numbers of protists are not especially large and that many have extraordinarily wide distributions However the picture that unfolds from the latest studies discussed in this issue is different There are many species with wide ranges and proportionately more cosmopolitan species than in macroorganism groups as a result of their long evolutionary histories but there are also definite patterns and geographical restrictions to be found Further some protists are linked to host organisms as mutualists or parasites and necessarily connected to the distributions of their hosts *Plant Cell Vacuoles* Deepesh De, 2000-03-01 This book is the only comprehensive work at introductory level on plant cell vacuoles Vacuoles are ubiquitous multifaceted and indispensable organelles and yet they

have been thinly treated in the literature to date This is at odds with the amount of interest in vacuoles that has been expressed in the last two decades This comprehensive work provides a solid foundation on vacuoles to an advanced level The latest research findings have been included in all aspects of plant and yeast vacuoles The book synthesizes all the available information on the plant cell vacuole It includes methodologies occurrence and diversity structure and biochemistry of tonoplasts and molecular biology of biogenesis and diverse functions all presented in a concise way The tremendous surge in the genetic engineering of plants for commercial products requires a comprehension of the functions and possibilities of vacuole manipulation since most of the targets of improvement directly involve vacuoles Thus the work will be valuable to students of plant sciences plant breeding cell biology and plant biotechnology as well as advanced researchers who seek a better understanding of this vital organelle

Mechanical Engineering of the Cytoskeleton in Developmental Biology, 1994-04-22 Developing organisms are systems in which the geometry dynamics and boundary conditions are all changing in the course of morphogenesis The morphogenesis of cells and organisms appear to be mediated in part by the mechanically active components of the cytoskeleton Mechanical forces have long been considered secondary to the effects of molecular mechanisms in cell growth differentiation and development This volume explores the role of mechanical forces in cell growth and development and demonstrates its importance This volume will prove invaluable to all biologists interested in the fundamentals of mechanical forces in development from the advanced to the graduate researcher

The Lowland Maya Area Scott Fedick, Michael Allen, Juan Jimenez-Osornio, A. Gomez-Pompa, 2024-11-15 What can we learn from the people of the Maya Lowlands Integrating history biodiversity ethnobotany geology ecology archaeology anthropology and other disciplines The Lowland Maya Area is a valuable guide to the fascinating relationship between man and his environment in the Yucatán peninsula This book covers virtually every aspect of the biology and ecology of the Maya Lowlands and the many ways that human beings have interacted with their surroundings in that area for the last three thousand years You will learn about newly discovered archaeological evidence of wetland use the domestication and use of cacao and henequen plants a biodiversity assessment of a select group of plants animals and microorganisms the area's forgotten cotton indigo and wax industries the ecological history of the Yucatán Peninsula and much more This comprehensive book will open your eyes to all that we can learn from the Maya people who continue to live on their native lands integrating modern life with their old ways and teaching valuable lessons about human dependence on and management of environmental resources The Lowland Maya Area explores the impact of hurricanes and fire on local environments historic and modern Maya concepts of forests the geologic history of the Yucatán challenges to preserving Maya architecture newly discovered evidence of fertilizer use among the ancient Maya cooperation between locals and researchers that fosters greater knowledge on both sides recommendations to help safeguard the future The Lowland Maya Area is an ideal single source for reliable information on the many ecological and social issues of this dynamic area Providing you with the results of the most recent research into many diverse fields

including traditional ecological knowledge the difficult transition to capitalism agave production and the diversity of insect species this book will be a valuable addition to your collection As the editors of The Lowland Maya Area say in their concluding chapter If we are to gain global perspective from the changing Maya world it is that understanding space and time is absolutely critical to human persistence Understanding how the Maya have interacted with their environment for thousands of years while maintaining biodiversity will help us understand how we too can work for sustainable development in our own environments

Origin And Evolution Of The Cell, The - Proceedings Of The Conference On The Origin And Evolution Of Prokaryotic And Eukaryotic Cells K Matsuno, Hyman Hartman, 1993-02-13 This volume examines the origin of eukaryotic cells both phylogenetically and morphogenetically The evolutionary relationship between prokaryotic and eukaryotic organizations is emphasized The difference of inferences from ribosomal RNA and protein phylogenetic trees suggests a new possibility of synthesizing an evolutionary origin of eukaryotic cells as integrating morphogenetic contributions

The Protistan Cell Surface Richard Wetherbee, Robert A. Andersen, Jeremy D. Pickett-Heaps, 2012-12-06 Protists represent an immensely diverse group of organisms comprised of algae fungi and protozoa The nature of protistan cell surface is as diverse as the terminology that has evolved to describe the various surface components This terminology is defined and discussed in the opening of this book The remaining contributions provide an up to date synopsis of structure development and function of protistan cell surfaces including their role in taxonomy and systematics

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