

Chapter 28 – Protists

LECTURE OBJECTIVES:

Protist refers to all **eukaryotes** that are **not** plants, animals, or fungi - make up much of the diversity of eukaryotes

1. have a **nucleus** and other **membrane-enclosed organelles**
2. more **complex** than prokaryotic cells
3. **well-developed cytoskeleton** - asymmetric shape leads to change shape over time

Protists - most **nutritionally diverse** of all eukaryotes

1. **photoautotrophs** containing chloroplast
2. **heterotrophs** that absorb organic molecules or ingest larger food particles
3. **mixotrophs** that combine photosynthesis and heterotrophic nutrition – able to survive without photosynthesis by engulfing organic material by **phagocytosis**

VOCABULARY:

Endosymbiosis - relationship between two species in which one organism lives inside the cell of the other organism (the host)

Secondary Endosymbiosis - red and green algae are ingested by heterotrophic eukaryotes

Stramenopiles - most have a “hairy” flagellum paired with a “smooth” flagellum; diatoms, oomycetes, brown algae

Diplomonads – modified mitochondria; have two equal-sized nuclei and multiple flagella; parasites

Diatoms - unicellular with a unique two-part, glass-like wall of silicon dioxide

Brown Algae - largest and most complex multicellular algae; algin, gel-forming substance found in the cell wall, is used as a thickener in many processed foods

Oomycetes include water molds and downy mildews; causes potato blight

Alveolates - have membrane-enclosed sacs (alveoli) just under the plasma membrane

Dinoflagellates - have two flagella housed in the grooves; blooms cause “red tides”

Apicomplexans - parasites of animals that spread through the host

Ciliates are named for their use of cilia to move around - two types of nuclei: macronuclei and micronuclei

Forams - named for their porous calcium carbonate shells, test – threadlike pseudopodia

Red Algae – have an accessory pigment called **phycoerythrin** that masks the green of chlorophyll

Green Algae - their green chloroplasts, similar to land plants; Volvox and Ulva

Amoebozoans - amoebas that have lobe- or tube-shaped pseudopodia; slime molds and entamoebas

Biology Protist Study Guide Chapter 19

Kenneth R. Miller



Biology Protist Study Guide Chapter 19:

Study Guide to Accompany Biology: A Journey into Life Russell V. Skavaryl,1991 **Biology** Wallace,1998-03-21

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mammals thermoregulation mechanisms in animals metabolic waste metabolism muscles nephrons nitrogenous waste osmoregulation phalanges plant movements skeleton deformities stomata vertebrae vertebral column and xylem **Biology** Glencoe/McGraw-Hill,1994-07 *Modern Biology* James Howard Otto,1985 **Essentials of Biology** Holt Rinehart & Winston,1998 Biological Field Emission Scanning Electron Microscopy Roland A. Fleck,Bruno M. Humbel,2019-01-31 The go to resource for microscopists on biological applications of field emission gun scanning electron microscopy FEGSEM The evolution of scanning electron microscopy technologies and capability over the past few years has revolutionized the biological imaging capabilities of the microscope giving it the capability to examine surface structures of cellular membranes to reveal the organization of individual proteins across a membrane bilayer and the arrangement of cell cytoskeleton at a nm scale Most notable are their improvements for field emission scanning electron microscopy FEGSEM which when combined with cryo preparation techniques has provided insight into a wide range of biological questions including the functionality of bacteria and viruses This full colour must have book for microscopists traces the development of the biological field emission scanning electron microscopy FEGSEM and highlights its current value in biological research as well as its future worth Biological Field Emission Scanning Electron Microscopy highlights the present capability of the technique and informs the wider biological science community of its application in basic biological research Starting with the theory and history of FEGSEM the book offers chapters covering operation strengths and weakness sample selection handling limitations and preparation Commercial developments and principals from the major FEGSEM manufacturers Thermo Scientific JEOL HITACHI ZEISS Tescan technical developments essential to bioFEGSEM cryobio FEGSEM cryo FIB FEGSEM digital tomography array tomography public health research mammalian cells and tissues digital challenges image collection storage and automated data analysis and more Examines the creation of the biological field emission gun scanning electron microscopy FEGSEM and discusses its benefits to the biological research community and future value Provides insight into the design and development philosophy behind current instrument manufacturers Covers sample handling applications and key supporting techniques Focuses on the biological applications of field emission gun scanning electron microscopy FEGSEM covering both plant and animal research Presented in full colour An important part of the Wiley Royal Microscopical Series Biological Field Emission Scanning Electron Microscopy is an ideal general resource for experienced academic and industrial users of electron microscopy specifically those with a need to understand the application limitations and strengths of FEGSEM **Inquiry Into Life** Sylvia S. Mader,1982 **The Science Teacher** ,1987 *Advances in Phytoplankton Ecology* Lesley Clementson,Ruth Eriksen,Anusuya Willis,2021-12-08 Phytoplankton ecology has developed from an understanding of taxonomy species dynamics and functional roles and species interactions with the surrounding environment New and emerging technologies enable a paradigm shift in the ways we monitor and understand phytoplankton in a range of environments *Advances in Phytoplankton Ecology Applications of Emerging Technologies* is a practical guide to

these new technologies and explores their application with case studies to show how recent advances have changed our understanding of phytoplankton ecology Part one of this book explores how traditional taxonomy and species identification has changed moving from morphological to molecular techniques Part two explores the new technologies for remote and automatic monitoring and sensor technology and applications for management Part three explores the explosion of omics techniques and their application in species identification functional populations trait characterization interspecific interactions and interaction with their environment This book is an invaluable guide for marine and freshwater ecology researchers to how new technologies can enhance our understanding of ecology Combines traditional techniques with new technologies and methods Explores the influence of new technology on our understanding of phytoplankton ecology Provides practical applications of each technique through case studies in each chapter **Nature** Sir Norman Lockyer, 1905

Biology Sylvia S. Mader, 2004 This text covers the concepts and principles of biology from the structure and function of the cell to the organization of the biosphere It draws upon the world of living things to bring out an evolutionary theme The concept of evolution gives a background for the study of ecological principles Freshwater Algae of North America John D. Wehr, 2002-12-15 Freshwater algae are among the most diverse and ubiquitous organisms on earth They occupy an enormous range of ecological conditions from lakes and rivers to acidic peat swamps inland saline lakes snow and ice damp soils wetlands desert soils wastewater treatment plants and are symbionts in and on many plants fungi and animals In North America the variety of freshwater habitats colonized by algae is very rich and offers an enormous and fascinating range of environments for their study They form the base of most aquatic food webs and are critical to studies of ecosystem health Algal ecologists and taxonomists play an important role in the understanding of aquatic ecosystems their biodiversity productivity interactions with other organisms and water quality This book provides in one volume a practical and comprehensive guide to the genera of freshwater algae known from North America The format combines the necessary ecological taxonomic and methodological information for all scientists working in aquatic environments whether their specialty is in environmental monitoring and water quality assessment biological composition ecology evolution or molecular biology Key Features The first complete accounting of North America's freshwater algal genera in more than 50 years Includes a guide to the current literature on species identification in each group of algae High quality photographs and drawings of more than 770 genera A clear easy to use introductory key to the diagnostic chapters Synthetic chapters on freshwater habitats use of algae in environmental assessment and control of nuisance algae Contributions from 27 experts in all areas of freshwater algae Extensive literature citations Companion volume of Ecology and Classification of North American Freshwater Invertebrates 2nd edition edited by Throp and Covich **Straminipilous Fungi** M.W. Dick, 2013-06-29 Straminipilous Fungi presents a critical comparative review of the morphology and ultrastructure morphogenesis cytology molecular biology and evolution of the biflagellate fungi These organisms encompass the fungi

formerly called oomycetes taxonomically related heterotrophs studied by mycologists plasmodiophorids and other heterotrophs Appropriate comparisons are made with chromophyte algae marine heterotrophs and chytridiaceous fungi Little known taxa which have been referred to the various orders of flagellate fungi are also listed together with citations A new hierarchical classification is presented which is supported by systematic accounts and synoptic keys Dichotomous keys based on habitat and habit are given to all known species of lagenidiaceous fungi labyrinthulids and plasmodiophorids A unique one stop reference resource for plant pathologists is provided by the binominal lists including host related lists for the downy mildews The book including ca 4000 references is a major text for post graduate and research workers particularly freshwater and marine biologists soil ecologists and plant pathologists [Marine Microbiome and Microbial Bioprospecting](#) Manikkam Radhakrishnan, Parli Venkateswaran Bhaskar, Abirami Baskaran, Kaari Manigundan, 2025-10-01 Marine Microbiome and Microbial Bioprospecting Diversity and Bioactive Potential comprehensively discusses the diversity of microbes present in various marine ecosystems their bioprospecting potential and how they can be utilized to derive bioproducts that benefit different fields and industries Sections overview marine microbes their ex situ conservation and the tools and techniques used to study marine microbial diversity and taxonomy In addition it explores and details microorganisms in different marine ecosystems and considers how bioactive metabolites from diverse marine microorganisms can be harnessed to combat pathogens used in industrial products and in environmental remediation and degradation and enhanced for agricultural and aquaculture applications With contributions from experts in the field this book aims to be a valuable resource for researchers and industry professionals in microbiology and biotechnology and anyone involved in finding lead molecules from marine microbial resources for wide ranging applications Discusses existing and novel metabolites from marine microbes Offers tools and techniques to exploit marine microbial resources Explores the applications of marine microbial bioproducts

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