



The Ciliates

Johannes H. P. Hackstein



The Ciliates:

The Biology and Ecology of Tintinnid Ciliates John R. Dolan, David J. S. Montagnes, Sabine Agatha, D. Wayne Coats, Diane K. Stoecker, 2012-09-13 Planktonic protists both produce and consume most of the primary production in the world ocean. They not only play key roles in the oceans but also represent an astounding amount of diversity ecological morphological and genetic. However for most taxa their ecology morphology phylogeny and biogeography are either poorly known or appear to be largely unrelated to one another this hinders our understanding of their biology as well as interpretation of emerging genetic data. Tintinnid ciliates represent a singular exception. Compared to nearly all other groups of planktonic protists there is a very substantial and relatively detailed literature both modern and historical on tintinnids. This volume synthesizes knowledge concerning a wide variety of topics ranging from anatomy and systematics physiology behavior ecology including ecological roles predators parasites biogeography and cysts to fossil history. It will appeal to an audience ranging from advanced undergraduates to researchers in the fields of Oceanography Marine Biology and Microbial Ecology.

Biodiversity of Ciliates and their Symbionts Martina Schrallhammer, 2021-01-21 In the past three decades a stream of criminological inquiry has emerged which explores measures and theorizes crimes and harms to the environment at the micro mezzo and macro levels. This green criminology as it has come to be known has widened the criminological gaze to consider crimes and harms committed against air land from forests to wetlands nonhuman animals and water in local regional national and international areas or arenas. Accordingly green criminology has endeavored to understand the causes and consequences of air and water pollution biodiversity loss climate change corporate environmental crime e.g. illegal waste disposal food production and distribution resource extraction and exploitation and wildlife trade and trafficking while also exploring potential responses to these issues. This book seeks to introduce the green criminological perspective to a broader social science audience. Recognizing that green criminology is not the first social science to explore the phenomena and harms at the intersections of humanity and ecology this book offers an introduction to some of the unique insights developed over nearly 30 years of green criminological thought and scholarship to students professors researchers and practitioners working in the fields of anthropology economics environmental humanities environmental sociology geography history and political ecology. This book contains contributions from researchers in green criminology from around the world including early and mid career scholars as well as more established voices in the field all of whom are dedicated to exposing understanding and ultimately hoping to thwart further environmental degradation and despoliation. **Protoplasmic**

Reorganization in the Ciliates Francisco Ramón Espinosa, 1942 **The Prokaryotes** Albert Balows, Hans G.

Trüper, Martin Dworkin, Wim Harder, Karl-Heinz Schleifer, 2013-12-18 For many of us these simple rewards are sufficient. The purpose of this brief foreword is unchanged from the first edition it is simply to make you sufficiently gratifying so that we have chosen to the reader hungry for the scientific feast that spend our scientific lives studying these unusual fellows. These four

volumes on the prokaryotes creatures In these endeavors many of the strat offer an expanded scientific menu that displays egies and tools as well as much of the philos the biochemical depth and remarkable physi ophy may be traced to the Delft School passed ological and morphological diversity of prokar on to us by our teachers Martinus Beijerinck yote life The size ofthe volumes might initially A J Kluyver and C B van Niel and in turn discourage the unprepared mind from being at passed on by us to our students tracted to the study of prokaryote life for this In this school the principles of the selective enrichment culture technique have been devel landmark assemblage thoroughly documents oped and diversified they have been a major the wealth of present knowledge But in con force in designing and applying new principles fronting the reader with the state of the art the Handbook also defines where more work needs for the capture and isolation of microbes from to be done on well studied bacteria as well as nature For me the organism approach has on unusual or poorly studied organisms provided rewarding adventures

Biocommunication of Ciliates Guenther Witzany, Mariusz Nowacki, 2016-05-23 This is the first coherent description of all levels of communication of ciliates Ciliates are highly sensitive organisms that actively compete for environmental resources They assess their surroundings estimate how much energy they need for particular goals and then realise the optimum variant They take measures to control certain environmental resources They perceive themselves and can distinguish between self and non self They process and evaluate information and then modify their behaviour accordingly These highly diverse competences show us that this is possible owing to sign aling mediated communication processes within ciliates intra organismic between the same related and different ciliate species inter organismic and between ciliates and non ciliate organisms trans organismic This is crucial in coordinating growth and development shape and dynamics This book further serves as a learning tool for research aspects in biocommunication in ciliates It will guide scientists in further investigations on ciliate behavior how they mediate signaling processes between themselves and the environment

Ciliates: Key Organisms in Aquatic Environments Weiwei Liu, Xinpeng Fan, Jean-David Grattepanche, Jae-Ho Jung, 2022-04-22 *The Light and Smith Manual* James T. Carlton, 2023-09-01 The Fourth Edition of *The Light and Smith Manual* continues a sixty five year tradition of providing to both students and professionals an indispensable comprehensive and authoritative guide to Pacific coast marine invertebrates of coastal waters rocky shores sandy beaches tidal mud flats salt marshes and floats and docks This classic and unparalleled reference has been newly expanded to include all common and many rare species from Point Conception California to the Columbia River one of the most studied areas in the world for marine invertebrates In addition although focused on the central and northern California and Oregon coasts this encyclopedic source is useful for anyone working in North American coastal ecosystems from Alaska to Mexico More than one hundred scholars have provided new keys illustrations and annotated species lists for over 3 500 species of intertidal and many shallow water marine organisms ranging from protozoans to sea squirts This expanded volume covers sponges sea anemones hydroids jellyfish flatworms polychaetes amphipods crabs insects snails

clams chitons and scores of other important groups The Fourth Edition also features introductory chapters on marine habitats and biogeography interstitial marine life and intertidal parasites as well as expanded treatments of common planktonic organisms likely to be encountered in near to shore shallow waters The Fourth Edition of The Light and Smith Manual continues a sixty five year tradition of providing to both students and professionals an indispensable comprehensive and authoritative guide to Pacific coast marine invertebrates of coastal waters How the Ocean Works Mark

Denny,2012-01-02 The world's oceans account for roughly 71 percent of the planet's surface and 99 percent of its livable volume Any study of this huge habitat requires a solid foundation in the principles that underlie marine biology and physical and chemical oceanography yet until now undergraduate textbooks have largely presented compilations of facts rather than explanations of principles How the Ocean Works fills this gap providing a concise and accessible college level introduction to marine science that is also ideal for general readers How are winds and currents driven What is the dilemma of the two layered ocean Mark Denny explains key concepts like these in rich and fascinating detail He explores early scientific knowledge of oceans photosynthesis trophic interactions and energy flow and the impacts of human activities on marine and atmospheric systems Focusing each chapter on a major topic and carefully explaining the principles and theory involved Denny gives readers the conceptual building blocks needed to develop a coherent picture of the living ocean How the Ocean Works is an indispensable resource that teaches readers how to think about the ocean its biology mechanics and conservation Provides a concise up to date introduction to marine science Develops the conceptual basis needed to understand how the ocean works Explains fundamental principles and theory Includes color illustrations and informative diagrams Serves as a college textbook and a reference for general readers Some images inside the book are unavailable due to digital copyright restrictions (Endo)symbiotic Methanogenic Archaea Johannes H. P. Hackstein,2018-11-04 This

updated monograph deals with methanogenic endosymbionts of anaerobic protists in particular ciliates and termite flagellates and with methanogens in the gastrointestinal tracts of vertebrates and arthropods Further chapters discuss the genomic consequences of living together in symbiotic associations the role of methanogens in syntrophic degradation and the function and evolution of hydrogenosomes hydrogen producing organelles of certain anaerobic protists Methanogens are prokaryotic microorganisms that produce methane as an end product of a complex biochemical pathway They are strictly anaerobic archaea and occupy a wide variety of anoxic environments Methanogens also thrive in the cytoplasm of anaerobic unicellular eukaryotes and in the gastrointestinal tracts of animals and humans The symbiotic methanogens in the gastrointestinal tracts of ruminants and other methanogenic mammals contribute significantly to the global methane budget especially the rumen hosts an impressive diversity of methanogens This makes this updated volume an interesting read for scientists and students in Microbiology and Physiology **Report of the New Jersey Agricultural Experiment Station,**

1st-79th. 1880-1957-58) and the 1st-58th Report of the New Jersey Agricultural College Experiment Station,

1888-1944/45 New Jersey Agricultural Experiment Station,1915 *New Jersey's Agricultural Experiment Station, 1880-1930* Carl Raymond Woodward,1927 *Annual Report of the New Jersey State Agricultural Experiment Station and the ... Annual Report of the New Jersey Agricultural College Experiment Station ...* New Jersey Agricultural Experiment Stations,1927 ... *Annual Report* New Jersey Agricultural Experiment Station,1916 **Annual Report of the New Jersey State Agricultural Experiment Station and the ... Annual Report of the New Jersey Agricultural College Experiment Station ...** New Jersey Agricultural Experiment Station,1927 Includes report of the New Jersey Agricultural College Experiment Station **Report of the Sewage Substation of the New Jersey Agricultural Experiment Station, New Brunswick, N. J.** New Jersey Agricultural Experiment Station. Dept. of biology of sewage disposal,1927 *Fishery Bulletin* ,1986 *Monograph of the Spathidiida (Ciliophora, Haptoria)* Wilhelm Foissner,Kuidong Xu,2007-03-16 The spathidiids belong to the ciliate subclass Haptoria Protozoa Ciliophora that is they are predators using toxicysts to overwhelm the prey Over 200 nominal spathidiid species have been described sometimes based on seemingly minute differences Thus many protozoologists considered them as indeterminable and claimed for a detailed revision The present monograph carefully revises the taxonomy nomenclature and ecology of all nominal species and shows that spathidiid diversity has been greatly underestimated Based on the reinvestigation of described species with modern methods silver impregnation scanning electron microscopy and the first description of over 50 new species the family Spathidiidae is split into four families and 20 genera Each species is described and figured in detail making it unnecessary to go back to the original literature often difficult to obtain Two identification keys are provided viz one for taxonomists and another simple key for users not specifically trained in ciliate taxonomy *Microscale Testing in Aquatic Toxicology* Peter G. Wells,Kenneth Lee,Christian Blaise,2018-05-04 Bioassays are among the ecotoxicologist s most effective weapons in the evaluation of water quality and the assessment of ecological impacts of effluents chemicals discharges and emissions on the aquatic environment Information on these assessment aids is needed throughout the international scientific and environmental management community This comprehensive reference provides an excellent overview of the small scale aquatic bioassay techniques and applications currently in use around the world This special volume is the result of several years of collaboration between Environment Canada and Fisheries and Oceans Canada Internationally recognized research scientists at many institutions have contributed to this state of the art examination of the exciting environmentally important field of microscale testing in aquatic toxicology *Microscale Testing in Aquatic Toxicology* contains over forty chapters covering relevant principles new techniques and recent advancements and applications in scientific research environmental management academia and the private sector *Guidelines for the Processing of Hot-smoked Chub* H. L. Seagran,J. T. Graikoski,John A. Emerson,1970

Molecular and functional ecology of aquatic microbial symbionts Hans-Peter Grossart,Lasse Riemann,Kam W. Tang, Nothing provided

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