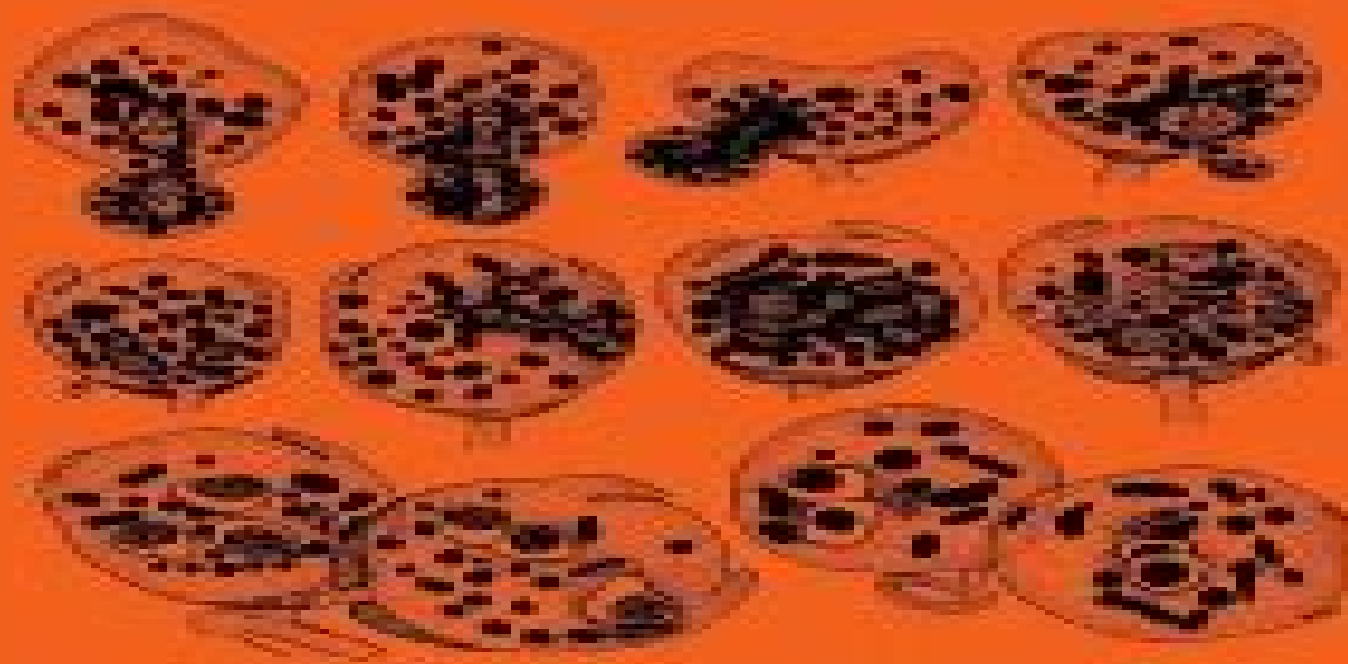

Research in Protozoology

In Four Volumes

Edited by T. J. F. Fennell, Ph.D.

Professor of Zoology, University of Southern California, Los Angeles

Volume 4



Research In Protozoology Volume 2

R. Wichterman



Research In Protozoology Volume 2:

Protozoology Karl Gottlieb Grell, 2013-11-11 When I prepared the first German edition of this book in 1955 it was my intention to acquaint biologists in my country with the new and exciting results being obtained on the other side of the Atlantic Ocean incl the English Channel In the meantime especially after publication of the second German edition in 1968 Dr Konrad F Springer and many colleagues too suggested that I should prepare an English version Though this was the exact opposite of my original intention I finally agreed despite the risks involved Since 1968 our knowledge in Protozoology increased considerably Though I tried to concentrate the text as much as possible an enlargement of up to pages 554 was unavoidable Many figures have been changed replaced and added Altogether their number increased from 422 to 437 In my opinion it is only a matter of time before the true protozoologists disappear There will be cell biologists biochemists geneticists and others working with certain Protozoa but very few who are interested in the group as a whole their morphological and physiological diversity their various types of reproduction and their relationships to other groups of organisms Even at the present time the Society of Protozoologists comprising more than thousand members consists for the most part of specialists who concentrate their efforts specifically upon Chlamydomonas Amoeba Plasmodium Tetrahymena or some other protozoans

Ecology and Classification of North American Freshwater Invertebrates James H. Thorp, Alan P. Covich, 2001-05-11 The First Edition of Ecology and Classification of North American Freshwater Invertebrates has been immensely popular with students and researchers interested in freshwater biology and ecology limnology environmental science invertebrate zoology and related fields The First Edition has been widely used as a textbook and this Second Edition should continue to serve students in advanced classes The Second Edition features expanded and updated chapters especially with respect to the cited references and the classification of North American freshwater invertebrates New chapters or substantially revised chapters include those on freshwater ecosystems snails aquatic spiders aquatic insects and crustaceans Most up to date and informative text of its kind Written by experts in the ecology of various invertebrate groups coverage emphasizes ecological information within a current taxonomic framework Each chapter contains both morphological and taxonomic information including keys to North American taxa usually to the generic level as well as bibliographic information and a list of further readings The text is geared toward researchers and advanced undergraduate and graduate students

Developmental Aspects of the Cell Cycle Ivan Cameron, 2012-12-02 Developmental Aspects of the Cell Cycle discusses the molecular organelle cellular and organismal levels of cell cycle cell proliferation and cell differentiation It addresses the possible antagonism between the ability of cells to proliferate and to differentiate After brief historical theoretical and methodological background information for each cell system this book concentrates on the mechanisms involved in the regulation of cell proliferation and differentiation The book presents systems in which mass cultures of cells can be induced to undergo a synchronous transition from one cell state to another enabling the amplification

of cellular and biochemical events to be analyzed with the available morphological and biochemical techniques Some chapters explain the possibility of cell state production by a microenvironment that occurs at the organismal level in which a series of mitotic and growth steps causes cells proliferation The concluding chapters discuss cell proliferation and differentiation in specific cell system such as embryonic chick and male germ cell This book will appeal to investigators in many disciplines teachers and life sciences students particularly to molecular cellular and developmental biologists

The Biochemistry and Physiology of Tetrahymena Donald G. Hill, 2012-12-02 The Biochemistry and Physiology of Tetrahymena presents a review of the literature covering the physiology and biochemistry of the ciliate genus Tetrahymena of which Tetrahymena pyriformis is the most studied species Organized into 10 parts this book first provides basic information about Tetrahymena which is found in almost any body of water and is so unusual that one can debate quite rationally as to whether it is an animal or a plant Other chapters are restricted to specific subjects about this organism namely carbohydrate lipid energy protein amino acid purine pyrimidine and nucleic acid metabolism The organism's biochemical genetics vitamin and inorganic requirements and evolution are also shown This book also explores the effect of radiation drugs and hydrostatic pressure on Tetrahymena The documented information presented in this book will be sufficient to stimulate even more interest in the organism

The Ciliated Protozoa John O. Corliss, 2016-04-20 The Ciliated Protozoa Characterization Classification and Guide to the Literature Second Edition presents a premature major overhauling of the systematics of the Ciliophora sensu lato which is considered a separate phylum This book includes a developed rationale and defined criteria that serve as a basis for the reclassification of the ciliates Discussions of controversial taxa are provided including arbitrary but critical resolution of their place in or rejection from the new overall system The ideas concerning the evolution of ciliates as well as phylogenetic trees are also covered in this text This text categorizes the ciliates into three classes Kinetofragminophora Oligohymenophora and Polyhymenophora This publication is a good source for biologists and students interested in ciliates

Comparative Protozoology Orvil Roger Anderson, 2013-03-09 The protozoa are an eclectic assemblage of organisms encompassing a wide range of single celled and multiple celled colonial organisms lacking tissue organization but exhibiting remarkably refined biological behavior In some modern classifications they are classified as a subkingdom among the Protista eukaryotic single celled organisms Although they are not considered a formal category by some taxonomists and some biologists consider the name inappropriate inferring that they are the first unicellular animals although some photosynthesize it is still convenient to consider this group of organisms as an informal collection under the heading of protozoa Their cosmopolitan distribution significant ecological role in mineral recycling and enhancement of carbon flow through lower trophic levels of food webs and remarkable cellular adaptations to enhance survival in diverse environments make them significant organisms for biological investigation In some cases biologists are introduced to this group in first level courses or in invertebrate zoology but never develop a full

appreciation for the diverse and biologically sophisticated characteristics of these organisms This book is intended as a survey of broad concepts in protozoan biology with an emphasis on comparative data The focus is on the zoological aspects of the group Topics more closely related to plantlike characteristics as presented in books on phycology are not considered in detail here A sound background in modern biology and an introduction to cellular biology will be helpful in understanding Chapters 15 and 16 which include a substantial amount of information on biochemistry

Ecology of Protozoa Tom M. Fenchel, 2013-03-14 This book is written for ecologists and protozoologists Ecologists who study environments and biotic communities in which protozoa are important should find this book especially useful During the last decade it has become clear that protozoa play important roles in natural ecosystems but few ecologists have a feeling for the functional properties and the diversity of these organisms Protozoa pose or exemplify many general problems of population and community ecology and of evolutionary biology In most respects the general ecological properties of protozoa are not fundamentally different from those of larger organisms yet due to their small size short generation times and ubiquitous occurrence they often present ecological phenomena in a new and different light To this should be added that protozoa are well suited for experimental work Despite these advantages the study of protozoa has played a relatively modest role in the development of ecology and evolutionary biology primarily I believe because most ecologists are unfamiliar with these organisms I hope this book will attract more attention to these favorable characteristics of protozoa I also hope that this book may make protozoologists aware of new aspects of their pet organisms For a long time that is until the fundamental distinction between prokaryotic and eukaryotic cells was recognized protozoa were believed to represent the simplest form of life They were therefore extensively used for the experimental study of basic questions of cell biology

Nutrition and Feeding Strategies in Protozoa Brenda Nisbet, 2012-12-06 1 Modern biologists describe protozoa as microscopic eukaryotic organisms with a capacity for establishing themselves in almost every conceivable habitat provided it contains moisture in some form In 1674 at the time when Antony von Leeuwenhoek was making his first observations of very small animalcules in Berkelse Mere near his home town of Delft this concept of the ubiquity of protozoa would have been difficult to comprehend Leeuwenhoek's curiosity later led him to examine the body fluids gut contents and excreta of different animals and to describe an inconceivably great company of living animalcules and these of divers sorts and sizes Here were early descriptions of parasitic protozoa species which later came to be recognized as *Opalina* *Giardia* *Trichomonas* and others Following his pioneering work in the field of microscopic observation knowledge of protozoa has accumulated at an accelerating pace Some 30 000 living species have been identified and an equal number of fossil species from habitats which range from the ocean waters to the exuvial fluid of insects The study of protozoan nutrition is a particularly interesting aspect of this expanding field of zoology What kind of nourishment do protozoa need how do they acquire it and what influence do the answers to these two questions have on where protozoa live The need to determine what kind of food

protozoa are utilizing in their environment is desirable in all ecological studies involving micro organisms of aquatic communities

Fertilization in Protozoa and Metazoan Animals Juan J. Tarin, Antonio Cano, 2012-12-06 Reproduction is the origination of new organisms from pre existing ones Among more than 35 separated forms of reproduction including several types of gamogony parthenogenesis agamogenesis fission and division and plas motomy the bisexual mode of reproduction via fertilization provides genetic variability that allows species to adapt quickly to competitive and constantly changing environments Several excellent reviews and books have been written in the past to analyse the mechanisms of fertilization in different eukaryotic species During the last few years however renewed attention has been paid to examining the process of oocyte fertilization at the cellular molecular level not only within a single species group but also through different phylogenetic lineages As a result of this effort knowledge of the molecular pathways used by oocytes and spermatozoa at fertilization has increased but still many questions remain to be answered Being aware of the necessity of providing an integrated view of the process of fertilization this book has been entirely devoted to reviewing the process of oocyte fertilization at the cellular molecular level in two different and separated groups of eukaryotic organisms protozoa and metazoan animals The book is organized into six sections dealing with oocyte fertilization in protozoa invertebrates teleost fishes amphibians birds and mammals These sections are followed by a summary concluding chapter that provides a comparative overview of the process of fertilization in these groups of eukaryotes

The Biology of Paramecium R. Wichterman, 2012-12-06 This completely revised updated and expanded edition has been necessitated by the many important newer discoveries that have been made since the publication of the first edition That volume contained almost 2000 references from the 1600s to 1953 Since then and after an extensive search I have accumulated some 3800 additional titles from the world's literature on Paramecium After certain titles that largely represented abstracts and preliminary reports that were followed by full research papers were eliminated approximately 4400 full titles from the 1600s to the present were selected for inclusion in this edition Most of the titles in the Bibliography are the more recent ones beginning with 1953 I consider the Bibliography an important part of the book A good title of a paper in a journal is a miniature abstract of its contents Thus the reader who may be interested in obtaining additional information not found in the book may refer directly to the original source A cursory examination of the Bibliography will reveal that paramecium research has extended into all branches of biology including bio chemistry and biophysics Like other areas of science paramecium research has become highly specialized and fragmented I have attempted to organize and present the basic information in one book Because of space limitations some items may have been dealt with briefly It is in such instances that the Bibliography will be found to be invaluable

Evolution of Microbial Life Society for General Microbiology. Symposium, David McLean Roberts, 1996-11-13 This volume considers the evolution and diversification of early unicellular life

Invertebrate Pathology Noncommunicable Diseases Albert Sparks, 2012-12-02 Invertebrate Pathology Noncommunicable Diseases discusses the taxonomic and

phylogenetic aspects of invertebrate pathology beginning with protozoans and progressing through the ascending taxonomic order to the chordates The book is organized into seven chapters that cover the death and postmortem change reaction to injury and wound repair the physical and chemical injuries the effects of venoms and biotoxins the effects of ionizing radiation and tumors and tumor like growths The opening chapter describes stages of events in death necrosis somatic death gross and histological postmortem changes and cellular depression and degeneration The following chapter discusses the inflammatory response called wound repair to injury in invertebrates This text describes the processes that occur after injury in many invertebrates and covers the general principles of physical chemical and biological injuries Discussions on the effects of trauma pressure and temperature changes poisons pesticides detergents venoms biotoxins and toxigenic algae are included The book further examines the effects of ionizing radiation both on vertebrates and invertebrates such as beta particles gamma and X rays and neutrons The concluding chapter describes the structures of tumor in invertebrates focusing on hyperplasia or unusual proliferation of typical cellular components in response to injury or parasitic invasion With an ultimate objective to stimulate an acceleration of research effort in invertebrate pathology the book is an invaluable source for invertebrate pathologists immunologists and parasitologists

Mathematical Topics in Population Biology, Morphogenesis and Neurosciences Ei Teramoto, Masaya Yamaguti, 2013-03-08 This volume represents the edited proceedings of the International Symposium on Mathematical Biology held in Kyoto November 10 15 1985 The symposium was organized by an international committee whose members are E Teramoto M Yamaguti S Amari S A Levin H Matsuda A Okubo L M Ricciardi R Rosen and L A Segel The symposium included technical sessions with a total of 11 invited papers 49 contributed papers and a poster session where 40 papers were displayed These Proceedings consist of selected papers from this symposium This symposium was the second Kyoto meeting on mathematical topics in biology The first was held in conjunction with the Sixth International Biophysics Congress in 1978 Since then this field of science has grown enormously and the number of scientists in the field has rapidly increased This is also the case in Japan About 80 young Japanese scientists and graduate students participated this time The sessions were divided into 4 categories 1 Mathematical Ecology and Population Biology 2 Mathematical Theory of Developmental Biology and Morphogenesis 3 Theoretical Neurosciences and 4 Cell Kinetics and Other Topics In every session there were stimulating and active discussions among the participants We are convinced that the symposium was highly successful in transmitting scientific information across disciplines and in establishing fruitful contacts among the participants We owe this success to the cooperation of all participants

Protozoan Plankton Ecology J.A. Laybourn-Parry, 1992-01-31 This book provides aquatic biologists with a concise text on the biology temporal and spatial distribution patterns and the functional role of planktonic protozoa in fresh brackish and marine waters

Methods in Cell Biology, 1974-08-27 *Methods in Cell Biology* Folia Biologica, 2001 **Germ Line – Soma Differentiation** W. Hennig, 2013-06-05 One of the oldest problems in developmental biology is the differentiation between

germ line and somatic cells The continuity of germ line cells between subsequent generations of multicellular organisms was first suggested by Owen and later elaborated by A Weismann to his famous germ line theory His additional assumption that cellular differentiation was based on a differential representation of the genetic material in somatic cells was soon disproved In some apparently exceptional cases however such differences in the genetic material between germ line and somatic cells were discovered The best known example is the nematode *Ascaris* Boveri discovered and studied the fundamental differences in the karyotypes of germ line and soma of *Parascaris equorum* Later similar situations were found in some other organisms However in particular the work of Spemann demonstrated that cellular differentiation in general is not accompanied by fundamental changes of the genetic material Subsequently the relatively few examples of germ line soma differences achieved by chromatin elimination processes have been considered as a curiosity Experimental studies have been essentially restricted to *Ascaris* species and to the pioneering cytological studies of chromatin elimination by S Beermann Despite the large proportions of the genome involved in chromatin elimination our knowledge of this process is still very restricted In particular the biological meaning of this differentiation process is entirely obscure In this context one must however consider that also for the majority of DNA sequences in eukaryotic genomes the biological relevance is unclear

Pamphlets on
Protozoology (Kofoid Collection) ,1896 Review of Bacteriology, Protozoology and General Parasitology ,1913 **The**
Review of Bacteriology, Protozoology, & General Parasitology ,1916

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