

The Biochemistry and Physiology of *Tetrahymena*

Donald L. Hill



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The Biochemistry And Physiology Of Tetrahymena

Tze-Tuan Chen



The Biochemistry And Physiology Of Tetrahymena:

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

Biochemistry and Physiology of Protozoa André Lwoff, Seymour Herbert Hutner, 1951 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1971 First multi year cumulation covers six years 1965 70

Handbook of Genetics Robert C. King, 2013-04-17 The purpose of this and future volumes of the Handbook of Genetics is to bring together a collection of relatively short authoritative essays or annotated compilations of data on topics of significance to geneticists Many of the essays will deal with various aspects of the biology of certain species selected because they are favorite subjects for genetic investigation in nature or the laboratory Often there will be an encyclopedic amount of information available on such a species with new papers appearing daily Most of these will be written for specialists in a jargon that is bewildering to a novice and sometimes even to a veteran geneticist working with evolutionarily distant organisms For such readers what is needed is a written introduction to the morphology life cycle reproductive behavior and culture methods for the species in question What are its particular advantages and disadvantages for genetic study and what have we learned from it Where are the classic papers the key bibliographies and how or mutant strains A list giving the symbols does one get stocks of wild type bolism for unknown mutations is helpful but it need include only those mutants that have been retained and are thus available for future studies Other data such as up to date genetic and cytological maps listings of break points for chromosomal aberrations mitotic karyotypes and haploid DNA values will be included when available

Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70

The Molecular Biology of Ciliated Protozoa Joseph Gall, 2012-12-02 The Molecular Biology of Ciliated Protozoa covers topics that are unique to ciliates including major molecular progress genetics life history and development of ciliates Organized into 11 chapters it focuses on the importance of ciliated protozoa as experimental organisms The introductory chapter traces the ups and downs of ciliate biology emphasizing the prominent role of the ciliates in early studies of cell structure reproduction and heredity The book goes on to discuss ciliate genetics and conjugation providing the basic biological framework for molecular studies of ciliate Chapters 4

and 5 cover the nuclear DNA content sequence and arrangement of holotrichous and hypotrich ciliates Chapters 6 to 9 examine the characterization of chromosomal telomeres ribosomal gene amplification and chromatin and histone structure using ciliated protozoa as experimental organisms The final two chapters describe the mating mechanism of two ciliates *Blepharisma japonicum* and *Euplotes raikovi* and the function of surface antigens of *Paramecium* ciliate The book is intended for students and investigators who want to learn more about the ciliated protozoa particularly in areas that cover fundamental features of eukaryotic biology

Biodegradation and Persistence B. Beek, 2005-09-06 Biodegradation is a key phenomenon among environmental processes Low degradation rates lead to the persistence of chemicals in the environment and as a consequence to delayed or long term effects which may be even unknown by now In this volume the editor has pulled together the newest results of research in biodegradation and persistence of potential environmentally harmful substances and the complex process involved The main focus is on the microbial degradation the evolution and predictability of the respective pathways and their impact on bioremediation Additional chapters deal with sewage treatment plants the impact of toxicants on impaired biodegradation and with the need of a more realistic view on fate and behaviour of chemicals in the environment

The Role of Phosphonates in Living Systems Hilderbrand, 2018-01-18 Throughout the last three decades a large amount of information on phosphonates has accumulated but has not been compiled At this time of the increasing importance of phosphonate class of molecules this information needs to be drawn together to make a manageable volume for use as a reference text and as learning text for interested persons

Membrane Fluidity Morris Kates, 2012-12-06 The aim of this book is to bring together in one volume the current research and thought on the concept of membrane fluidity as a biological phenomenon The invited articles are intended to review recent developments in the areas of membrane research covered and to summarize the current concepts and theories in those areas The authors have been given ample opportunity to present their thoughts and speculation on membrane fluidity and related phenomena in a more expanded form than is usually possible in reviews of this type It is hoped that this approach will have a stimulating effect on research and theoretical development in the biomembrane field The chapters in this book are arranged in three sections the first of which covers physical studies of membrane fluidity and related phenomena on the molecular level Included are chapters on intermolecular hydrogen bonding between membrane lipids thermal analysis of membranes application of fluorescence and NMR spectrometry to the study of membrane fluidity and the effect of drugs and other compounds on membrane stability and fluidity The second section deals with the regulation of membrane fluidity in microorganisms plants and higher organisms by factors such as temperature fatty acid chain length lipid desaturation and polar head group structure

Biochemistry and Physiology of Protozoa Michael Levandowsky, Seymour Herbert Hutner, 1979

Protozoa and Other Protists Michael A. Sleight, 1991-10-03

Methods in Cell Biology, 1975-07-25 **Methods in Cell Biology**

The Biological Resources of Model Organisms Robert L. Jarret, Kevin McCluskey, 2019-07-16 This book discusses 14 model

organisms and are used by thousands of researchers teachers and students each year in laboratories and classrooms around the globe Though acknowledged in innumerable scientific journal articles little is generally known about the origin of these collections how the organisms contained within them have been acquired and how they are maintained and distributed While some collections such as *Drosophila* have long histories others such as the collection of *Brachionus* are relatively new They vary greatly in size Yet all have contributed and are continuing to contribute to global research efforts in many areas of scientific research as diverse as tissue regeneration skin cancer evolution water purity gene function and hundreds of others In addition to providing the raw materials for national and international research programs these collections also provide educational tools used by colleges and high schools The chapters in this book attempt to provide a brief look at the individual organisms how they came to be accepted as model organisms the history of the individual collections examples of how the organisms have been and are being used in scientific research and a description of the facilities and procedures used to maintain them

Features Provides an in depth look at the collections of 14 model organisms that have enabled innumerable scientific breakthroughs over decades and that continue to do so Includes detailed descriptions of the operating procedures used for the maintenance of each model organism collection Discusses the holdings of the collections of model organisms and its relevance to past current and future scientific research Written by the leaders in the field of the management of model organisms

Animal Species for Developmental Studies T.A. Dettlaff, Sergei G. Vassetzky, 2012-12-06 This volume comprises normal tables description of normal development for protozoa and invertebrates widely used in developmental biology studies The species chosen reflect their advantages for laboratory studies the information available and their availability for experimentation Chapter 11 which contains the normal tables for the starfish *Asterina pectinifera* was written specially for this edition which is the invertebrate section of the revised and augmented translation of *Obekty Biologii Razvitiya* published in Russian in 1975 as a volume in the series of monographs *Problemy Biologii Razvitiya* Problems of Developmental Biology by Nauka Publishers Moscow The description of every species is preceded by an introduction in which the advantages of working with the particular animal are stated and the problems studied with the main references are outlined Data are also provided on its taxonomic status and distribution of the animal and conditions of keeping the adult animals in laboratory Methods of obtaining gametes methods of artificial fertilization methods of rearing embryos and larvae and tables of normal development are also given

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 confined to the distributions of their hosts.

Antimalarial Drugs I, 2012-12-06 Of all the parasitic diseases that beset man in the warmer parts of the world malaria is still the major cause of morbidity and mortality. In spite of intensive efforts to interrupt its transmission malaria still threatens over 800 million people more than one fifth of the world's population. Malignant tertian malaria caused by *Plasmodium falciparum* probably kills a million every year. Vivax malaria temporarily incapacitates millions more. The search for antimalarial drugs both natural and synthetic has been and continues to be one of the most challenging and at times rewarding exercises ever undertaken by chemists and biologists. The magnitude of the effort is reflected by the fact that in the last 15 years well over 250,000 compounds have been screened for antimalarial activity in just one programme that carried out under the auspices of the Walter Reed Army Institute of Research not to mention sporadic studies undertaken by other research workers and organisations. While most people engaged in the search for new drugs agree that a rational approach based on knowledge of the intimate biochemical pathways of the target cells would be ideal as well as intellectually satisfying most are reluctantly obliged to concede that up to the present time the chances of success following a more or less empirical search have been far greater. Spectacular advances in molecular biology and biochemistry in recent years however are rapidly changing this situation.

Manual for the Culture of Selected Freshwater Invertebrates S. G. Lawrence, 1981 Selected freshwater invertebrates of various trophic levels are grown at the Freshwater Institute for studying basic physiological and nutritional relationships effects of toxic materials on morphological and physiological phenomena and effects of continued laboratory culture on population dynamics physiology and morphology. *tetrahymena vorax helisoma trivolvis Artemia* sp *Daphnia magna* *D. pulex* *Hyalella azteca* *Gammarus lacustris lacustris* *Orconectes virilis* *Chironomus tentans* and *Hexagenia rigida* have been cultured. Procedures for culturing organisms on various nutritional bases are outlined. Techniques such as storage of partly developed eggs or overwintering animals artificial insemination of insect egg masses washing procedures and production of given life phases specifically for use in toxicological studies are described. Methods for collecting and transporting organisms from the field are outlined. Specific environmental preferences diseases and parasites and geographic distribution are described.

Research in Protozoology
Tze-Tuan Chen, 2013-10-22 Research in Protozoology is the fourth volume of a series that covers the progress being made in

protozoology This book is comprised of four chapters and begins with a discussion of synchronized cell division in protozoa including the species *Tetrahymena pyriformes*, *Acanthamoeba polycephala*, *Plasmodium falciparum*, *Amoeba proteus* and *Acanthamoeba* sp and *Physarum polycephalum*. The following chapters discuss nuclear phenomena during conjugation and the relationship between protozoa and other animals with emphasis on parasitism, relations between parasite and host groups and host specificity. The final chapter focuses on chromosomes and nucleoli in some opalinid protozoa. The book is highly recommended for biologists, microbiologists, zoologists and parasitologists who want to be updated about the developments in the field of protozoology.

International Review of Cytology, 2002-01-19 *International Review of Cytology* presents current advances and comprehensive reviews in cell biology both plant and animal. Articles in this volume address topics such as class A macrophage scavenger receptors, microtubule transport in the axon, G protein coupled receptors, genes involved in the initiation of DNA replication in yeast, phenotype switching in polymorphic *tetrahymena* and mitosis and motor proteins. Authored by some of the foremost scientists in the field, each volume provides up to date information and directions for future research.

Cytobios, 1978

Whispering the Strategies of Language: An Emotional Quest through **The Biochemistry And Physiology Of Tetrahymena**

In a digitally-driven world wherever screens reign great and immediate conversation drowns out the subtleties of language, the profound secrets and mental subtleties concealed within words usually go unheard. Yet, located within the pages of **The Biochemistry And Physiology Of Tetrahymena** a captivating fictional treasure blinking with organic thoughts, lies an extraordinary journey waiting to be undertaken. Composed by an experienced wordsmith, that enchanting opus encourages readers on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the very cloth of each and every word. Within the psychological depths of this poignant evaluation, we shall embark upon a genuine exploration of the book is key styles, dissect their charming publishing design, and succumb to the strong resonance it evokes heavy within the recesses of readers hearts.

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