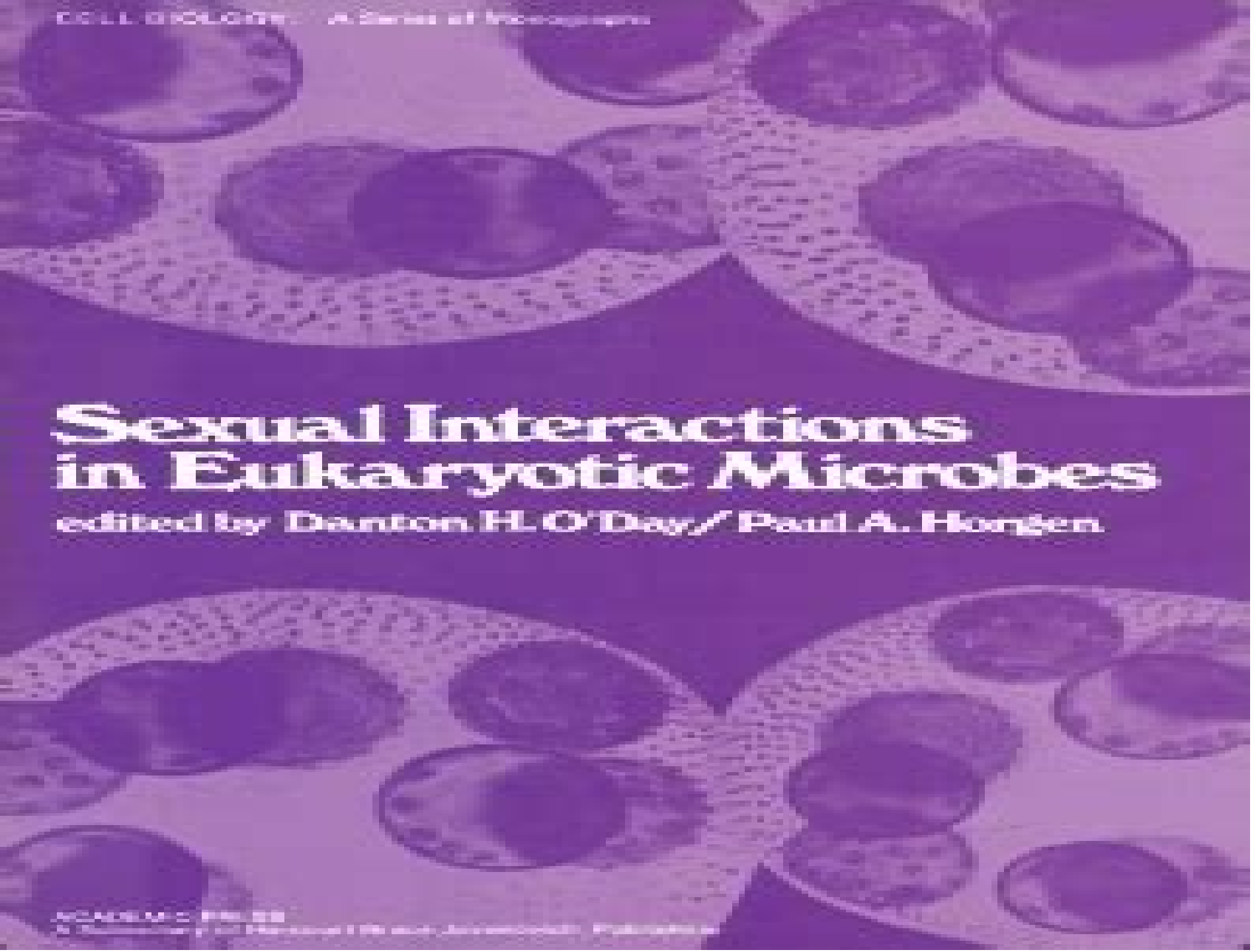
Sexual Interactions
in Eukaryotic Microbes
edited by Danton H. O'Day/ Paul A. Horgen

Sexual Interactions In Eukaryotic Microbes

William Loomis

Sexual Interactions In Eukaryotic Microbes:

Sexual Interactions in Eukaryotic Microbes Danton O'Day,2012-12-02 Sexual Interactions in Eukaryotic Microbes provides a comprehensive discussion of the sexual processes of eukaryotic microorganisms The book is organized into three parts Part I presents an overview of intercellular communication covering the modes of cellular communication and the benefit of using eukaryotic microbes for studying cell communication Part II on pheromonal interactions includes studies on the role of sex pheromones in organisms such as Saccharomyces cerevisiae Allomyces Volvox and Neurospora crassa Part III on cell surface interactions presents studies such as sexual interactions in Saccharomyces cerevisiae sexual interactions of the cell surface in Paramecium and the genetics and cellular biology of sexual development in Ustilago violacea This book will be of value on a multitude of levels from a general reference text to a source of research ideas It will appeal to a wide spectrum of readers in a large number of disciplines but will be particularly useful to cell biologists microbiologists protozoologists and mycologists interested in the study of cellular communication **Secondary Metabolism and Differentiation in Fungi** Bennett,2020-11-25 The first source to unite secondary fungal metabolism and morphogenesis in one volume Secondary Metabolism and Differentiation in Fungi treats biological systems as parts of a whole rather than as a series of individual elements highlighting research in genetics molecular biology and ecology Featuring the expertise of 19 international authorities each chapter is a rich source of experimentation ideas The book facilitates the application of novel techniques to existing problems in molecular mycology and explores potentials for major new research This indispensable guide to a key scientific field benefits biologists chemists and other scientists **Reproductive Biology of Plants** B.M. Johri,P.S. Srivastava,2013-06-29 Reproductive Biology of Plants is a comparative account of reproduction in viruses bacteria cyanobacteria algae fungi lichens bryophytes pteridophytes gymnosperms and angiosperms each chapter written by an expert in the field Special emphasis is placed on the truly comparative approach illustrating the vast range from simplicity to complexity in structure and function with respect to the various organisms **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 **The Dictyostelids** Kenneth Bryan Raper,2014-07-14 Kenneth Raper tells how dictyostelids are isolated cultivated and conserved in the laboratory how myxamoebae aggregate to form multicellular pseudoplasmodia how fructifications arise by transformation of amoeboid cells into stalk cells and spores and how similar cells can under certain conditions enter a sexual phase For each known dictyostelid Professor Raper includes a complete description and photographic illustrations one new species is described Originally published in 1984 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 **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 The Receptors P. Michael Conn,2014-05-10 The Receptors Volume IV deals with receptors for intracellular hormones estrogen and sex steroids as well as for dopamine cholecystokinin and corticotropin The role of surface recognition receptors in disease is also discussed along with receptors for plant auxin action and auxin transport Comprised of 11 chapters this volume begins with a detailed account of the adrenergic receptor coupled adenylate cyclase and the reconstitution of the functional interactions of its various purified components The discussion then turns to the mechanism of action of steroid and thyroid hormones and how abnormalities in their receptors lead to disease nuclear location of estrogen receptors and the biochemistry of the fungal sex steroid receptors as well as the use of Achlya as a model system for the study of the mechanism of action of steroid hormones in general Subsequent chapters focus on dopamine receptors cholecystokinin receptor corticotropin receptors and the search for receptors that mediate sweetness

The book concludes with an analysis of endocrine receptors on lymphocytes and the integration of endocrine and immune systems with emphasis on large granular lymphocytes This monograph will be a valuable resource for students and practitioners in fields ranging from cell biology and biochemistry to physiology endocrinology and pharmacology

Advances in Microbial Physiology ,1993-01-13 Advances in Microbial Physiology **Endosymbionts in Paramecium** Masahiro Fujishima,2009-06-12 Endosymbiosis is a primary force in eukaryotic cell evolution In order to understand the molecular mechanisms involved in this mutualistic relationship experiments to reproduce endosymbiosis are indispensable The ciliate Paramecium is an ideal host for performing such studies Topics presented in this volume are the origins of algal and bacterial symbionts in Paramecium the diversity of endosymbiotic bacteria such as Holospora bacteria and especially Chlorella species as well as the infection and maintenance processes The metabolic control the regulation of circadian rhythms and photobiological aspects of the mutualistic association as well as the killer effect of Paramecium and its causative agents are further points discussed **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **Plant-Microbe Interactions** Gary Stacey,Noel T. Keen,2012-12-06 Plant Microbe Interactions Volume 1 Many plant microbe interactions have agronomic importance because of either beneficial e g nitrogen fixation or biocontrol or detrimental e g pathogen esis effects Although these systems have been the subjects of scientific re search for many years recently there has been a tremendous increase in our knowledge of them The increases in this research have followed a similar general increase in plant science research Classical plant science research disciplines e g agronomy breeding plant physiology systematics etc have been affected by an increased focus on molecular biology These new technologies as well as advances in other areas have the effect of blurring the traditional borders between research disciplines Another factor influencing the development of this research is the increased attention given to environmental issues These concerns have been brought about by debate over the release of genetically modified organisms and the general concern over environmental quality Thus research areas focused on plant microbe interactions are presently in a period of great excitement and growth that shows every sign of continuing far into the future As in most research areas the rate of advance and breadth of disciplines involved in the study of plant microbe interactions make it impossible for the average researcher or student to stay abreast of the primary scientific literature **Advances in Genetics** ,1985-03-28 Advances in Genetics **Progress in Tryptophan and Serotonin Research** H. G. Schlossberger,H. Steinhart,W. Kochen,B. Linzen,International Study Group for Tryptophan Research,2019-07-22 No detailed description available for Progress in Tryptophan and Serotonin Research *Advances in Applied Microbiology* Allen I. Laskin,Joan W. Bennett,Geoffrey M. Gadd,2002-09-11 Advances in Applied Microbiology offers intensive reviews of the latest techniques and discoveries in this rapidly moving field The editors are recognized experts and the format is comprehensive and instructive Covers topics of historical interest Includes a discussion on foodborne pathogens Entire sections devoted to various topics such as genomics

and microbial genetics Protozoa and Other Protists Michael A. Sleigh,1991-10-03 **Development of Hormone Receptors** G. Csaba,2013-03-12 **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 International Review of Cytology ,1997-12-10 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research The Cellular Basis of Tumor Progression Molecules Involved in Mammalian Serm Egg Interaction Coordinated Nuclear and Chloroplast Gene Expression in Plants Signaling in Unicellular Eukaryotes Metabolic Detoxificiation of So2 in plants The Sacred Depths of Nature Ursula Goodenough,2023 This eloquent volume reconciles our contemporary scientific understanding of reality with our timeless spiritual yearnings Addressing ideas like evolution emotions sexuality and death The Sacred Depths of Nature allows even non scientists to appreciate that the origins of life and the universe are no less meaningful in light of our scientific understanding of them This new edition offers a deepened consideration of emergent properties and emergent dynamics as well as an exploration of their role as the generators of life s complexity Goodenough also expands upon the ethic of ecomorality in a new chapter and incorporates new quotes figures and poems in her analysis **Chemical Communication** William C. Agosta,1992-04-15 A wounded minnow attempts to rejoin its school and the other minnows scatter in panic a single beetle finds a pine tree to its liking and soon thousands of beetles swarm that tree and others in the vicinity a male Syrian golden hamster is drawn along an invisible trail to a burrow where a female hamster awaits him ready for mating These animals are responding to received communications but as in countless other occurrences in nature the language is not auditory or visual it is chemical Unlike humans who gather information largely through sight and sound most living creatures rely heavily on chemical compounds from other organisms for their basic knowledge of the world Among the various types of these compounds are the chemical signals exchanged

between members of the same species that govern social interactions crucial to survival These signals are called pheromones from the Greek pherein to carry and hormon exciting and they are used to send warnings establish territorial boundaries provoke aggression control sexual behavior and locate food In this volume organic chemist William C Agosta explores the chemistry of pheromones and the mechanisms by which they orchestrate animal behavior Professor Agosta details the intricate process of identifying pheromones and determining the active components within these sometimes highly complex mixtures He also demonstrates the value of this growing body of knowledge to our understanding of evolution ecology human behavior and agricultural production The result is a fascinating look at a research area that brings together investigators information technologies and procedures from the fields of biology chemistry and behavioral science Chemical Communication spans the entire spectrum of life from simple organisms such as water molds and brown algae to insects birds fish reptiles mammals and in a provocative final chapter human beings Along the way Dr Agosta provides dozens of captivating examples of pheromones in action certain male red sided garter snakes which increase their chances of mating successfully by impersonating a female thus distracting rivals or the bolas spiders which capture male moths by hitting them with an adhesive ball on a string after emitting a female moth pheromone that lures the males within range The book also includes important evidence that pheromones alter physiology as well as behavior For example young female mice reach maturity at an accelerated pace after constant exposure to adult male mice

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Table of Contents Sexual Interactions In Eukaryotic Microbes

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