

The *Chlamydomonas*

Sourcebook Second Edition

*Introduction to Chlamydomonas
and Its Laboratory Use*
Volume 1



Elizabeth H. Harris



The Chlamydomonas Sourcebook

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The Chlamydomonas Sourcebook:

The Chlamydomonas Sourcebook Ursula Goodenough, 2023 The Chlamydomonas Sourcebook Ursula Goodenough, 2023-02-15 The Chlamydomonas Sourcebook 3rd Edition Introduction to Chlamydomonas and Its Laboratory Use Volume 1 The gold standard reference covering the basic biology of the Chlamydomonas alga and techniques for its laboratory analysis Originally published as the standalone Chlamydomonas Sourcebook then expanded as the first volume in a three part comprehensive gold standard reference The Chlamydomonas Sourcebook Introduction to Chlamydomonas and Its Laboratory Use has been fully revised and updated to include a wealth of new resources for the Chlamydomonas community Early chapters cover current understandings of its taxonomy ultrastructure cell and life cycles and nuclear and organelle genomes followed by technique oriented chapters covering such topics as cell culture mutagenesis genetic analysis construction of mutant libraries and protein localization using immunofluorescence This volume presents the latest in research and best practices making it a must have resource for researchers and students working in plant science and photosynthesis fertility mammalian vision and biochemistry crop scientists plant physiologists and plant molecular and human disease biologists Remains the only complete reference to provide both the historical background and the most up to date information and applications on Chlamydomonas Includes best practices for applications in research including methods for culture genetic analysis genomic and transcriptomic analysis and mutant screening Helps researchers solve common laboratory problems provides details on the properties of particular strains and offers a comprehensive survey of molecular approaches Provides a broad perspective for studies in cell and molecular biology genetics plant physiology and related fields

The Chlamydomonas Sourcebook Elizabeth H. Harris, 2013-10-22 The green alga Chlamydomonas is widely used as an experimental model system for studies in cellular and molecular biology and in particular plant molecular biology This book is the only single modern compendium of information on its biology and in particular its molecular biology and genetics Included in addition to much information on the basic biology is material of a very practical nature namely methods for culture preservation of cultures preparation of media lists of inhibitors and other additives to culture media help with common laboratory problems such as contamination student demonstrations and properties of particular strains and mutants Casual users as well as specialists will find the book to be useful in many ways Provides access to previously unpublished data from genetic analysis Provides descriptions of mutant strains Depicts summary tables comparing properties of different species and their mutant strains Explains detailed methods for laboratory procedures of general utility Furnishes comparisons of culture media Presents lists of inhibitors mutagens and other additives to culture media Assists with common laboratory problems such as contamination and storage of strains Demonstrates protocols for laboratory demonstrations available for undergraduate teaching *The Chlamydomonas Sourcebook: Introduction to Chlamydomonas and Its Laboratory Use* Elizabeth H. Harris, 2009-03-07 Dr Harris has played a major role in the development of this organism as a

model system Her previous version of the Chlamydomonas Sourcebook which published in 1989 has been a classic in the field and is considered required reading for anyone working with this organism This latest edition has been expanded to include three volumes providing molecular techniques analysis of the recently sequenced genome and reviews of the current status of the diverse fields in which Chlamydomonas is used as a model organism Methods for Chlamydomonas research and best practices for applications in research including methods for culture preservation of cultures preparation of media lists of inhibitors and other additives to culture media are included Additions to this volume also include help with common laboratory problems such as contamination student demonstrations and properties of particular strains and mutants This volume is part of a 3 Volume Set ISBN 978 0 12 370873 1 and is also sold individually Expanded revision of gold standard reference Includes latest advances in research including completion of the genome Provides broad perspective with studies in cell and molecular biology genetics plant physiology and related fields Available as part of a 3 Volume Set or sold individually

The Chlamydomonas Sourcebook 3-Vol Set Elizabeth H. Harris, 2009 In recent years Chlamydomonas reinhardtii C reinhardtii has proved to be an outstanding model for investigation of signal transduction rhodopsin based vision and the evolution of sexual processes The Chlamydomonas Sourcebook first published in 1989 summarized the development of this alga as a laboratory system beginning in the 1940s Since the first edition published Chlamydomonas research has grown significantly This revised three volume set which includes the Sourcebook Chlamydomonas Metabolic Processes and Chlamydomonas Motility and Taxis Responses stands as the most comprehensive reference for this important research organism This set retains historical material and culture methods and illustrations from the original book while adding molecular techniques analysis of the recently sequenced genome and reviews of the current status of the diverse fields in which Chlamydomonas is used as a model organism Edited by the leading researcher in chlamydomonas science Includes best practices for applications in research including methods for culture preservation of cultures preparation of media lists of inhibitors and more Aids researchers with common laboratory problems such as contamination and details on properties of particular strains and mutants The latest advances in research including completion of the genome A broad perspective for studies in cell and molecular biology genetics plant physiology and related fields

The Chlamydomonas Sourcebook Elizabeth H. Harris, 2008

The Chlamydomonas Sourcebook: Organellar and Metabolic Processes David Stern, 2009-02-24 This second volume of The Chlamydomonas Sourcebook provides the background and techniques for using this important organism in plant research From biogenesis of chloroplasts and mitochondria and photosynthesis to respiration and nitrogen assimilation this volume introduces scientists to the functions of the organism The volume then moves on to starch biosynthesis sulfur metabolism response to heavy metals and hydrogen production Describes molecular techniques analysis of the recently sequenced genome and reviews of the current status of the diverse fields in which Chlamydomonas is used as a model organism Includes contributions from leaders in particular areas of research Provides

methods for Chlamydomonas research and best practices for applications in research including methods for culture preservation of cultures preparation of media lists of inhibitors and other additives to culture media Assists researchers with common laboratory problems such as contamination Includes valuable student demonstrations and properties of particular strains and mutants Edited by the leading researcher in Chlamydomonas science The Chlamydomonas Sourcebook: Cell Motility and Behavior George Witman,2009-03-07 This volume reviews virtually everything that is known about cell motility and behavior in Chlamydomonas World experts in each area focus on mitosis and cytokinesis flagellar assembly and motility intraflagellar transport and more will use this reference as a guide for understanding human diseases of the cilium The volume is richly illustrated and is supplemented by a Website containing both classic and previously unpublished videos of cell motility in Chlamydomonas Because Chlamydomonas has been the premier model for investigating the function and behavior of cilia and flagella the chapters summarize the current state of knowledge in these areas as it applies to all ciliated organisms Thus this volume will be an essential source for all students and researchers interested in cell motility This volume is part of a 3 Volume Set ISBN 978 0 12 370873 1 and is also sold individually Includes a table listing the known proteins with NCBI accession numbers for each structure discussed and the known mutations that affect each structure and process Essential reference to a model species for the study of mechanisms of motility in free living cells Includes methods for Chlamydomonas motility research Companion Website with videos illustrates the marvels of the Chlamydomonas flagella in action **The Chlamydomonas Sourcebook** Arthur Grossman,Francis-André Wollman,2023-02-15 Originally published as the stand alone Chlamydomonas Sourcebook then expanded as the second volume in a three part comprehensive gold standard reference The Chlamydomonas Sourcebook Organellar and Metabolic Processes has been fully revised and updated to include a wealth of new knowledge and resources for the Chlamydomonas community It details the tremendous progress recently made with respect to imaging the ultrastructure of cells dissecting acclimation and biosynthetic responses and elucidating molecular processes underlying the biology of organelles In particular this volume includes exciting new developments in the use of imaging technologies for examining supramolecular organization of the chloroplast defining mechanisms of branched electron transfer pathways in photosynthesis dissecting the organization of pyrenoids and CO₂ concentration mechanisms presenting the intricacies associated with acclimation to environmental conditions and providing new insights into dark metabolism and the network of fermentative metabolism This book thus presents the latest advances in both the research and uses of new experimental approaches and technologies making this a must have resource for researchers and students working in plant science and photosynthesis fertility mammalian vision aspects of human disease acclimation to environmental change and the biogenesis of cellular complexes Describes molecular techniques analysis of the recently sequenced genome reviews of the current status of the diverse fields in which Chlamydomonas is used as a model organism Provides methods for Chlamydomonas research and best practices for their applications this includes methods for

cell culture preservation of cultures preparation of media lists of inhibitors and other additives to culture media classical genetic manipulation and new approaches for gene transfer and editing technologies Assists researchers with common laboratory problems such as contamination **The Chlamydomonas Sourcebook** Susan Dutcher, 2023-02-15 The Chlamydomonas Sourcebook 3rd Edition Cell Motility and Behavior Volume 3 The gold standard reference introducing this multidisciplinary science fully revised and updated with the latest discoveries Originally published as the standalone Chlamydomonas Sourcebook then expanded as the third volume in a three part comprehensive gold standard reference The Chlamydomonas Sourcebook Cell Motility and Behavior has been fully revised and updated to include the wealth of new resources for the Chlamydomonas community Reflecting the significant advancement in the understanding of the role of basal bodies and cilia play in human diseases this volume employs quantitative proteomics and mass spectroscopy as well as cryo EM tomography and single particle cryo EM Other topics such as current insights on mitosis and cytokinesis ciliary assembly and motility intraflagellar transport and more help build an understanding of human diseases of the cilium Cell Motility and Behavior presents the latest in research and best practices making this a must have resource for researchers and students working in plant science and photosynthesis fertility mammalian vision and biochemistry crop scientists plant physiologists and plant molecular and human disease biologists Provides an essential reference to a model species for the study of mechanisms of motility in free living cells Includes methods for Chlamydomonas motility research Includes a table listing the known proteins with NCBI accession numbers for each structure discussed and the known mutations that affect each structure and process

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