The Chlamydomonas Sourcebook: Introduction to Chlamydomonas and Its Laboratory Use. Edition No. 2

Description: 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

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THE CHLAMYDOMONAS
Edited by Elizabeth Harris (Duke University)
- Taxonomy, diversity and distribution of Chlamydomonas species
- History of Chlamydomonas as a laboratory organism
- Cell architecture
- The vegetative cell cycle, including culture conditions and methods
- The sexual cycle
- Overview of the nuclear genome
- Genetic analysis
- The molecular toolkit, including transformation, gene expression, etc.
- Resources for the investigator and for use of Chlamydomonas in teaching

VOLUME 2
METABOLIC PROCESSES
Edited By David Stern (Cornel University)
- Biogenesis of chloroplasts and mitochondria
- Photosynthesis
- Respiration
- Nitrogen assimilation
- Starch biosynthesis
- Sulfur metabolism
- Response to heavy metals
- Hydrogen production

VOLUME 3
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