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The Chlamydomonas Sourcebook A Comprehensive Guide To ...

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Chlamydomonas: a model cell Chlamydomonas

Chlamydomonas: a model cell The Chlamydomonas Sourcebook - A Comprehensive Guide to Biology and Laboratory Use by Elisabeth H, Harris, Academic Press, 1989 £9000 (xi + 780 pages) ISBN 0 12 326880 X Cometh the hour, cometh the book Chlamydomonas may not be a flowering plant but those who know it well are

The Chlamydomonas Sourcebook. A Comprehensive Guide to ...

The Chlamydomonas Sourcebook is a summary review and sourcebook for all the many fields of basic biology to which Chlamydomonas research has made contributions. It includes the expected, such as maps of chromosomal and organelle DNAs and a list and brief description of available mutant clones; and the

The Chlamydomonas - GBV

Chlamydomonas Sourcebook A Comprehensive Guide to Biology and Laboratory Use Elizabeth H Harris Chlamydomonas Genetics Center Department of Botany Duke University Durham, North Carolina Academic Press, Inc Harcourt Brace Jovanovich, Publishers San Diego New York Berkeley Boston London Sydney Tokyo Toronto Contents Preface xi 1 An Overview of the ...

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Rediscovering Chlamydomonas - Indiana State University

Chlamydomonas is The Chlamydomonas Sourcebook by Elizabeth Harris (1989). This book gives a detailed view of Chlamydomonas biology including cell structure and function, population biology, and genetics. Isolation, culture, and experimental protocols are also available. Most of the protocols are inexpensive cultures and can be confined to a

A Series of Fortunate Events: Introducing Chlamydomonas as ...

Inside its 2000 pages and three volumes, the Chlamydomonas Sourcebook 27 encompasses major research topics, history, and methodology (Harris, 2008). We will feature 28 selected examples below where *C. reinhardtii* has played a key role before examining the 29 events that promoted this alga to the forefront. 30

Culturing Chlamydomonas reinhardtii CC1690 (ALG App008)

Background Chlamydomonas reinhardtii is a motile, unicellular green microalga typically measuring around 10 µm in diameter. It is widely

distributed, and is often isolated from soil and freshwater samples *C reinhardtii* has been used as a model organism for over 70 years for basic and applied research, largely due to its ease of

Chlamydomonas reinhardtii Genome Project. A Guide to the

Genome Analysis *Chlamydomonas reinhardtii* Genome Project A Guide to the Generation and Use of the cDNA Information¹ Jeff Shrager*, Charles Hauser, Chung-Wen Chang, Elizabeth H Harris, John Davies², Jeff McDermott, Raquel Tamse, Zhaodou Zhang, and Arthur R Grossman

TAP Medium (Tris-Acetate-Phosphate Medium)

Harris, EH (1989): The *Chlamydomonas* sourcebook: a comprehensive guide to biology and laboratory use Academic Press, San Diego, 780pp

Sueoka, N (1960): Mitotic replication of deoxyribonucleic acid in *Chlamydomonas reinhardtii* - Proc Natl Acad Sci U S A 46(1): 83-91 TAP-Medium can be used for those algae which metabolise NH₄

Efficient targeted DNA editing and replacement in ...

resources, including the *Chlamydomonas* Resource Center (University of Minnesota) and *Chlamydomonas* Sourcebook (22) Despite its auspicious features, nuclear gene targeting in *C reinhardtii* through homologous recombination (HR)-mediated plasmid integration occurs at prohibitively low levels (18, 19, 23-28) This necessitates the positive

Phylogenomic analysis of the *Chlamydomonas* genome unmasks ...

has been described in the *Chlamydomonas* Sourcebook (Harris 2009), an invaluable, up-to-date resource on most aspects of *Chlamydomonas* biology Those processes and analyses relevant to the focus of this article include characterization of the chloroplast genome (Higgs 2009) and chloroplast structure and function (de Vitry and Kuras

A Series of Fortunate Events: Introducing *Chlamydomonas* as ...

The unicellular alga *Chlamydomonas reinhardtii* is a classical reference organism for studying photosynthesis, chloroplast biology, cell cycle control, and cilia structure and function It is also an emerging model for studying sensory cilia, the production of high-value bioproducts, and in situ structural determination Much of the early appeal

A brief introduction to the model microswimmer ...

textis "The *Chlamydomonas* Sourcebook" [11], a detailed 3 volumes review on the state-of-the-art knowledge on *Chlamydomonas reinhardtii* Although quite technical a e-mail: mpolin@warwick.ac.uk

Genetic tools and techniques for *Chlamydomonas reinhardtii*

The *Chlamydomonas* Sourcebook represents the most extensive collection of information on the organism with the most recent edition having been published in 2009 (Harris 2009) Although only few genetic tools are established for *C reinhardtii* which would qualify as being

15N Effects on *Chlamydomonas Reinhardtii*

Chlamydomonas reinhardtii CC-1266 (American Type Culture Collection, Manassas, VA) is the particular species that was used during the experiment *Chlamydomonas reinhardtii* was selected based on the algae's capabilities to grow both photosynthetically by fixing carbon dioxide and non-photosynthetically by 15N EFFECTS ON CHLAMYDOMONAS