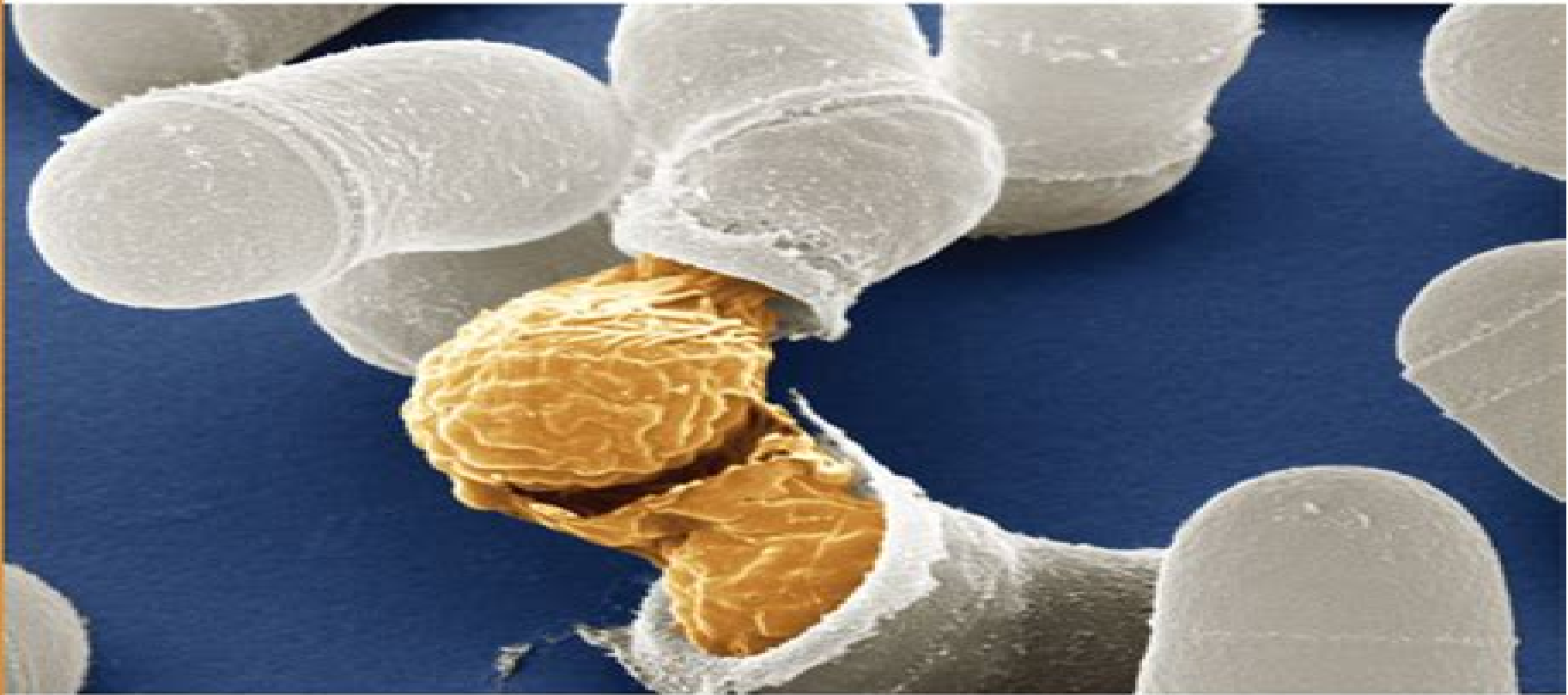


# Fission Yeast



EDITED BY Iain M. Hagan, Antony M. Carr, Agnes Grallert,  
and Paul Nurse

# Yeast Laboratory Manual

**Carl Gottfried Hartman**



## **Yeast Laboratory Manual:**

Fission Yeast Iain Hagan, Antony M. Carr, Agnes Grallert, Paul Nurse, 2016 Fission yeast are unicellular rod shaped fungi that divide by medial fission. Studies using fission yeast were instrumental in identifying fundamental mechanisms that govern cell division, differentiation and epigenetics to name but a few. Their rapid growth rate, genetic malleability and similarities to more complex eukaryotes continue to make them excellent subjects for many biochemical, molecular and cell biological studies. This laboratory manual provides an authoritative collection of core experimental procedures that underpin modern fission yeast research. The contributors describe basic methods for culturing and genetically manipulating fission yeast, synchronization strategies for probing the cell cycle, technologies for assessing proteins, metabolites and cell wall constituents, imaging methods to visualize subcellular structures and dynamics and protocols for investigating chromatin and nucleic acid metabolism. Modifications to techniques commonly used in related species, e.g. budding yeast, are noted as are useful resources for fission yeast researchers including various databases and repositories. The well studied fission yeast *Schizosaccharomyces pombe* is the focus throughout but the emerging model *S. japonicus*, a larger dimorphic species with several desirable characteristics, is also covered. This manual is an important reference for existing fission yeast laboratories and will serve as an essential start up guide for those working with fission yeast for the first time.

**Methods in Yeast Genetics**, 1983      Methods in Yeast Genetics, 1979      Methods in Yeast Genetics, 1972      **Methods in Yeast Genetics** Dan Burke, Dean Dawson, Tim Stearns, 2000 In the 2000 edition of this text most of the experiments have been revised and several new experiments and methods have been added. These include the 2 hybrid system, PCR based methods and isolation of chromatin.      *Budding Yeast* Brenda Andrews, Charles M. Boone, Trisha Davis, Stanley Fields, 2016 Over the past century studies of the budding yeast *Saccharomyces cerevisiae* have helped to unravel principles of nearly every aspect of eukaryotic cell biology, from metabolism and molecular genetics to cell division and differentiation. Thanks to its short generation time, ease of genetic manipulation and suitability for high throughput studies, yeast remains the focus of research in a vast number of laboratories worldwide. This laboratory manual provides a comprehensive collection of experimental procedures that continue to make budding yeast an informative model. The contributors describe methods for culturing and genetically modifying yeast, strategies and tools, e.g. gene deletion collections for functional analyses, approaches for characterizing cell structure and morphology and techniques to probe the modifications and interactions of various cellular constituents, e.g. using one and two hybrid screens. Strategies for studying metabolomics, complex traits and evolution in yeast are also covered, as are methods to isolate and investigate new strains of yeast from the wild. Several additional chapters are devoted to bioinformatics tools and resources for yeast biology, e.g. the *Saccharomyces* Genome Database. This manual is therefore an essential resource for all researchers from graduate level upward who use budding yeast to explore the intricate workings of cells.      **Methods in Yeast Genetics** Gerald R. Fink, James B. Hicks, 1981      *Methods in Yeast Genetics* Cold Spring

Harbor Laboratory, Fred Sherman, Gerald R. Fink, Christopher W. Lawrence, 1971      **Methods in Yeast Genetics and Genomics** Maitreya J. Dunham, Marc R. Gartenberg, Grant W. Brown, 2015 Methods in Yeast Genetics is a course that has been offered annually at Cold Spring Harbor Laboratory for the last 45 years This is an updated edition of the course manual which provides a set of teaching experiments along with protocols and recipes for the standard techniques and reagents used in the study of yeast biology Since the last edition of the manual was published 2005 revolutionary advances in genomics proteomics and imaging technologies have had a significant impact on the field The 11 experiments included in this manual provide a foundation of methods for any modern day yeast lab These methods emphasize combinations of classical and modern genetic approaches including isolation and characterization of mutants two hybrid analysis tetrad analysis complementation and recombination Also covered are molecular genetic techniques for genome engineering Additional experiments introduce fundamental techniques in yeast genomics including both performance and interpretation of Synthetic Genetic Array analysis multiplexed whole genome and barcode sequencing and comparative genomic hybridization to DNA arrays Comparative genomics is introduced using different yeast strains to study natural variation evolution and quantitative traits This manual covers the full repertoire of genetic approaches needed to dissect complex biological problems in the yeast *Saccharomyces cerevisiae*      **Laboratory Manual for a course Methods in yeast genetics** ,1972      *Experiments with Fission Yeast* Caroline Alfa, 1993-01-01 A lab manual based on a course at Cold Spring Harbor in which *Schizosaccharomyces pombe* the fission yeast is used to investigate the genetic regulation of cell division and other aspects of cell and molecular biology Presents 21 experiments on cell biology classical genetics and molecular genetics Includes background information on the wee critters and a list of suppliers of equipment and material No index Plastic comb binding Annotation copyright by Book News Inc Portland OR      *Methods in Yeast Genetics* Beuchat,      **Methods in Yeast Genetics. (Laboratory Manual). Course Instructors** ,1981      *Methods in Yeast Genetics* Chris Kaiser, Susan Michaelis, Aaron Mitchell, 1994      Methods in Yeast Genetics ,1998      **Laboratory Course Manual for Methods in Yeast Genetics** Fred Sherman, Gerald R. Fink, James B. Hicks, 1986      *Non-Conventional Yeasts in Genetics, Biochemistry and Biotechnology* Klaus Wolf, Karin D. Breunig, 2003-03-04 Most information on yeasts derives from experiments with the conventional yeasts *Saccharomyces cerevisiae* and *Schizosaccharomyces pombe* the complete nuclear and mitochondrial genome of which has also been sequenced For all other non conventional yeasts investigations are in progress and the rapid development of molecular techniques has allowed an insight also into a variety of non conventional yeasts In this bench manual over 70 practical protocols using 15 different non conventional yeast species and in addition several protocols of general use are described in detail All of these experiments on the genetics biochemistry and biotechnology of yeasts have been contributed by renowned laboratories and have been reproduced many times The reliable protocols are thus ideally suited also for undergraduate and graduate practical courses      A Laboratory Manual of Physiological Chemistry Elbert William

Rockwood, 1899      Methods in Yeast Genetics Chris Kaiser, Susan Michaelis, Aaron Mitchell, 1994-01-01      *Laboratory*  
*Manual for Human Physiology* Carl Gottfried Hartman, 1914

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