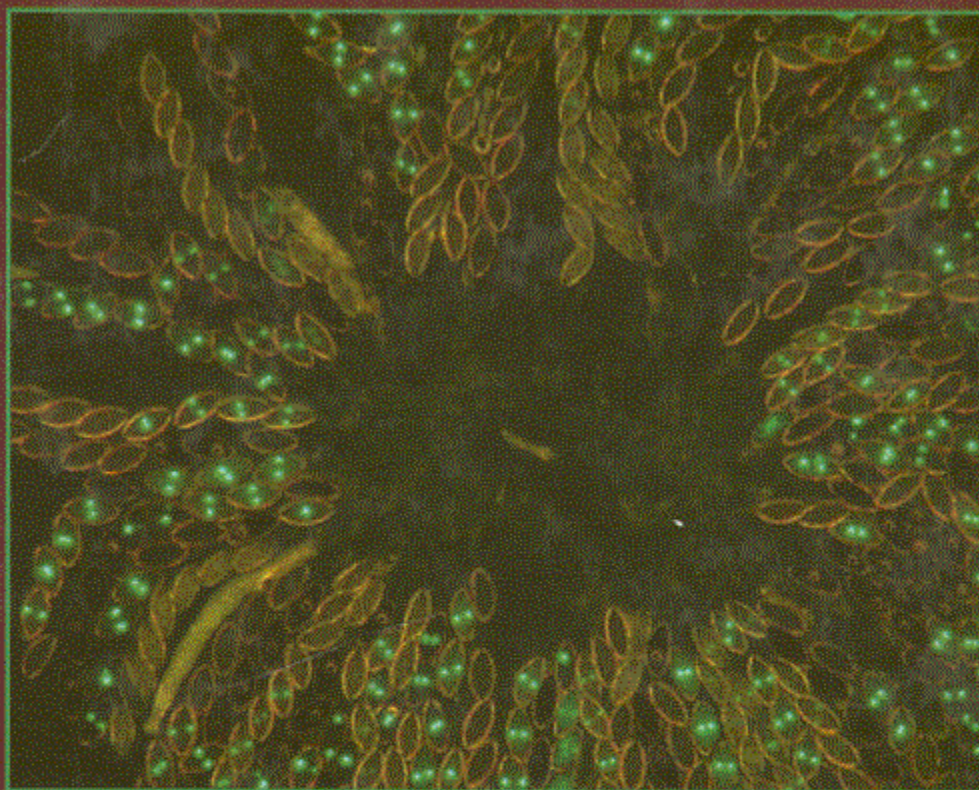


Today's accelerated pace of research, aided by new instruments and techniques that combine the approaches of genetics, biochemistry, and cell biology, has changed the character of mycology. A new approach is necessary for the organization and study of fungi.



Fungi: Experimental Methods in Biology presents the latest information in fungal biology generated through the application of genetics, molecular biology, and biochemistry. This book analyzes information derived through real experiments, and focuses on unresolved questions in the field. Divided into six sections comprising 14 chapters, the text describes the special features of fungi, interactions of fungi with other organisms, model fungi in research, gene manipulation, adaptations, and natural populations. Each chapter is self-contained and written in a style that enables the reader to progress from elementary concepts to advanced research, benefiting both beginning research workers and experienced professionals. A comprehensive appendix covers the principles in naming fungi and discusses their broad classification.

Features:

- Reviews the current field of fungal biology, concentrating on recent experiments that led to new discoveries
- Covers chapters on new topics including the hyphal mode of life, the multinuclear condition, gene-silencing, thermophilic fungi, circadian rhythm, speciation, and fungal senescence
- Provides carefully selected references for more in-depth information on the design of experiments used to obtain the data presented
- Contains more than 100 line drawings, halftones, and color illustrations, many from the original research publications



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