

Fungi have their own unique cell biology and life cycle, but also play critical roles in wider biological systems. This textbook provides an all-round view of fungal biology, ranging in scope from the evolutionary origins of fungi and other eukaryotes more than a billion years ago, to the impact fungi have on our current, everyday lives. Bringing mycology teaching right up to date, this integrative approach gives students a broader understanding of fungal biology than traditional textbooks and provides the tools to incorporate fungi into wider biology teaching.

'This will be very popular and will certainly fill a major gap in the available textbook literature ... I will be recommending it on the MSc microbiology course I now help with.'

PROFESSOR D. L. HAWKSWORTH CBE, Honorary President, International Mycological Association; Universidad Complutense de Madrid; and the Natural History Museum, London

'The *21st Century Guidebook to Fungi* is a game changer. It will provide the current techno savvy generation of students with a format that matches their learning style. The information is extensive and accessibly presented and the links provide students with tools to improve their critical thinking and life-long learning skills.'

SCOTT E. GOLD PhD, Professor of Plant Pathology, University of Georgia, USA

'The idea of integrating both a CD-ROM and a book makes this very timely, and a powerful educational tool for use at both undergraduate and postgraduate level. The key aspects of mycology are comprehensively covered with excellent diagrams, figures and images to help the educational process.'

PROFESSOR NARESH MAGAN, School Research Director & Head, Applied Mycology Group, Cranfield University, UK

- Unique systems biology approach emphasises interactions between fungi and other organisms to illustrate the critical roles that fungi play in every ecosystem and food web
- Highlights the importance of fungi in 'new' biology, including genomics and bioinformatics, with examples of computational modelling
- Over 20 resource boxes spread throughout the text point the reader towards external resources that provide further information
- Companion CD features a hyperlinked version of the book, the fully integrated *World of Cyberfungi* website and the *Neighbour-Sensing* interactive fungal growth simulator program

Cover designed by Mark Stevens

Cover photography © Alan Cressler

CAMBRIDGE
UNIVERSITY PRESS
www.cambridge.org

ISBN 978-0-521-18695-7



9 780521 186957 >