



Fungal Genomics

edited by Jay C. Dunlap

Department of Genetics, Dartmouth Medical School, Hanover, New Hampshire

The sequencing of several fungi genomes has spurred major advances in the field. Fungal genomics has been having a pivotal impact on applied research in agriculture, food sciences, natural resource management, pharmaceuticals, and biotechnology, as well as to basic studies in the life sciences.

This volume highlights many of the premier systems – plant and animal pathogens as well as a well established filamentous fungal model system – that are at various stages in the development of genomic technologies. The case studies provide a primer for where the fields of fungal biology and pathogenesis have been and will go in the future. **Volume 57** covers exciting new developments in this growth field, including topics on:

- Genetics of Morphogenesis and Pathogenic Development of *Ustilago maydis*
- Enabling a Community to Dissect an Organism
- Genomics of the Plant Pathogenic Oomycete *Phytophthora*
- Sex and Virulence of Human Pathogenic Fungi
- From Genes to Genomes: A New Paradigm for Studying Fungal Pathogenesis in *Magnaporthe oryzae*
- Genetic and Genomic Dissection of the *Cochliobolus heterostrophus* *Tox1* Locus Controlling Biosynthesis of the Polyketide Virulence Factor T-toxin
- Fungal Genomics: A Tool to Explore Central Metabolism of *Aspergillus fumigatus* and Its Role in Virulence



ACADEMIC PRESS
An imprint of Elsevier
books.elsevier.com

ISBN-13: 978-0-12-017657-1

ISBN-10: 0-12-017657-2

