

# Fungal Genomics, Volume 4 (Applied Mycology and Biotechnology)



Research in the genomics of a handful of fungi has matured at an unprecedented rate allowing comprehensive review. Developments in fungal genomics should be of great significance to new strategies in fields where disciplinary crossovers of fungal genomics, genes and their regulation, expression, and engineering will have a strong impact in dealing with agriculture, foods, natural resources, life sciences, biotechnology, informatics, metabolomics, pharmaceuticals and bioactive compounds. This volume analyzes the commonly used molecular markers systems, and elaborates the development of biochemical genetics, which provides a model system that established the relationship between genes and enzymes. Current knowledge about the genomic and genetic variability of *Candida albicans*, the polymorphic fungus that is an opportunistic human pathogen of increasing medical importance, has been covered in detail. Current understanding of the genetics and functional genomic analysis of the most important fungal pathogens of staple food crops, rice and wheat among others is covered including chapters dealing with the genomics of economically important fungi such as *Magnaporthe grisea*, *Aspergillus*, *Fusarium*, *Penicillium*, *Trichoderma*, *Rhizoctonia*, *Mycosphaerella graminicola*, and entomopathogenic fungi. With several thousand recent citations, it is hoped that volume four will serve as a useful reference for knowledgeable veterans and beginners as well as those crossing disciplinary boundaries into the exciting field of biotechnology, genomics and bioinformatics of fungi.

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Biotechnology Volume 4, Pages 1-415 (2004). Fungal Genomics. Edited by Dilip K. Arora and George G. Khachatourians. Read the latest chapters of Applied Mycology and Biotechnology at Previous volume 4 - Genome Sequencing, Assembly and Gene Prediction in Fungi. Applied Mycology and Biotechnology Volume 4, Pages 1-415 (2004). Fungal Genomics. Edited by Dilip K. Arora and George G. Khachatourians. The cross connection between applied mycology and biotechnology will give rise to newer Disciplinary crossovers of fungal genomics and genes, their regulation, expression, and 4. L. Hamer. Fungal Genet. Biol., 21 (1997), p. 8. 5. R.A. Prade. Fungal Genet. Biol. Y.H. Hui (Ed.), Handbook of foodborne diseases, Vol. Read Fungal Genomics: 4 (Applied Mycology and Biotechnology) book reviews & author details and more at . Free delivery on qualified orders. Fungal Genomics, Volume 4 of Applied Mycology and Biotechnology. Book February 2004 with 4 Reads. Edition First. ISBN Hardcover ISBN: 9780444514424 Read the latest chapters of Applied Mycology and Biotechnology at Volume 4, Pages 1-415 (2004) . 16 - Genomics of Arbuscular Mycorrhizal Fungi. Applied Mycology and Biotechnology Volume 4, Pages 1-415 (2004). Fungal Genomics. Edited by Dilip K. Arora and George G. Khachatourians. This diversity of form is also mirrored by functional diversity as fungi can and modern genomic and proteomic analyses have yielded the discovery of strictly to the basic principles of applied mycology and fungal biotechnology. As a result it seemed timely to revise the original Volume 4 (Fungal Biotechnology) and to