

Fundamentals of Molecular Mycology

This valuable book provides a complete overview of recent developments and applications in molecular mycology. It serves as a comprehensive guide for the identification of fungi and the application of fungal biomolecules in agriculture, food, environment, and pharmaceutical sectors by providing detailed information about the application of molecular markers and bioinformatics tools for mycology.

Covering the most important aspects of molecular mycology, the book focuses on

- the application of fungal secondary metabolites in ecosystem management and sustainable agriculture
- the application of DNA recombinant techniques to improve industrially important fungal species
- different molecular markers and genetic approaches for the taxonomical identification of fungi
- the bioinformatics tool for the identification of fungal species and its secondary metabolites

Advances in molecular tools have created a new path for the mycological research and applications in different sectors. **Fundamentals of Molecular Mycology** is an excellent source of information on molecular mycology tools and applications in various fields. This book will be valuable to biotechnologists at research institutes, academia, and industry researchers and professionals. The book is also a rich resource for undergraduate and postgraduate biology students in mycology, botany, microbiology, biotechnology, and molecular biology as well.

ABOUT THE AUTHORS

Devarajan Thangadurai, PhD, is Assistant Professor at Karnatak University in South India; President of the Society for Applied Biotechnology; and General Secretary for the Association for the Advancement of Biodiversity Science. In addition, Dr. Thangadurai is Editor-in-Chief of several journals, including *Biotechnology*, *Bioinformatics and Bioengineering*; *Acta Biologica Indica*; *Biodiversity Research International*; and the *Asian Journal of Microbiology*. He has edited/authored fifteen books, including *Genetic Resources and Biotechnology* (3 vols.), *Genes, Genomes and Genomics* (2 vols.) and *Mycorrhizal Biotechnology*.

Jeyabalan Sangeetha, PhD, is a UGC Kothari Postdoctoral Fellow at Karnatak University, Dharwad, India. She has published several articles on the effect of pollutants on the environment, and she has organized conferences, seminars, workshops, and lectures. Her main research interests are in the areas of environmental microbiology and environmental biotechnology, with particular emphasis on solid waste management, environmental impact assessment, and microbial degradation of hydrocarbons. Her scientific and community leadership has included serving as an editor for the journal *Biodiversity Research International* and acting as Secretary of the Society for Applied Biotechnology.

Muniswamy David, PhD, joined Karnatak University, Dharwad, South India, in 1995 as Assistant Professor and advanced to the rank of Full Professor of Zoology in 2012. He has vast teaching and research experience in the fields of ecotoxicology, molecular toxicology, microbial remediation of xenobiotics, and fishery biology. He has published more than 80 papers in national and internationally reputed journals. He was awarded a postdoctoral fellowship by the University Grant Commission, New Delhi, India, and also awarded as "Scientist of the Year-2013" from the National Environmental Science Academy, New Delhi, India. He has successfully handled three major research projects funded by UGC, DST-SERB and Hutti Gold Mines Pvt. Ltd., Karnataka.

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