FUNGICIDES
BENEFICIAL AND HARMFUL ASPECTS

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Dr. N. Thajuddin is working as an Associate Professor & Head of the Department of Microbiology, School of Life Sciences, Bharati Vidyapeeth University, Pune, India. He has more than 20 years of teaching and research experience in the field of Microbiology. His work on survey of marine cyanobacteria from India resulted in the establishment of marine cyanobacterial perigerminal 35S strains at National Facility for Marine Cyanobacteria, from which three technologies (blue coloursants, β lactamase enzyme and aza feed) were developed. He had a one-year postdoctoral training on molecular taxonomy and physiology of cyanobacteria at Department of Biology, Rensselaer Polytechnic Institute, Troy, New York, USA through the Department of Biotechnology Overseas Fellowship. He has published 120 articles in microbiology and related fields and has received project grants from government agencies such as DBT, DST, and UGC. He is a life member of various academic bodies and member of editorial boards in several journals. Dr. Thajuddin has successfully guided 17 PhD and 22 MPhil scholars in diverse field of Microbiology and organized a national level symposium, workshops, refresher courses and training programs related to Microbiology and Biotechnology. He has deposited around 230 nodule isolate sequences in the GenBank (NCBI) and has visited USA, Hong Kong, Malaysia and Singapore to disseminate his expertise and to keep himself abreast of the advanced techniques in the field of Microbiology.

Fungicides are a class of chemicals used for killing or inhibiting the growth of fungi. They are extensively used in pharmaceutical industries, agriculture, in protection of seed during storage and in preventing the growth of fungi that contaminate foods. Hence, fungicides production is constantly increasing as a result of their great importance to agriculture. Some fungicides affect humans and beneficial microorganisms including insects, birds and fish thus public concern about their effects is increasing day by day. In order to enrich the knowledge on beneficial and adverse effects of fungicides this book encompasses various aspects of the fungicides including fungicide resistance, mode of action, management fungal pathogens and defense mechanisms, ill effects of fungicides suffering the endocrine system, combined application of various fungicides and the need of GRAS (generally recognized as safe) fungicides. This volume will be useful source of information on fungicides for post graduate students, researchers, agriculturists, environmentalists and decision makers.

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