

Preface

Microbiology, Mycology and Plant Pathology is in essence the deciphering and use of biological knowledge. It has multidisciplinary access, since; it has the foundation in many disciplines including bio-geology, ecology, chemistry, biochemistry, and genetics. It may be viewed as a series of enabling techniques to technologies that involve the practical application of micro-organisms. Today, the micro-organisms are the basic tools of genetic engineering and biotechnology. This has been partly due to the use of micro-organisms in the production of organic chemicals, antibiotics, wine, beer, cheeses, bio-fertilizers, pharmaceuticals and supplements in boosting production and yield in agriculture, horticulture and forestry. They also control insect, pests causing diseases in crop plants.

Undoubtedly modern biological knowledge can only maximise its full potential to benefit mankind through achieving basic research findings and awareness in modern society. Participating scientists must learn to communicate in scientific records, books, and journals. By doing so, they will generate a greater level of confidence and trust between the scientific community and the society at large. The present book brought a significant research and review articles contributed by researchers and scientists especially on Microbiology, Mycology and Plant pathology. The microbiology consists of eleven chapters, each chapter dealing with different facets of microbial applications. Second part of this book dealing mainly on fungal metabolites, production of antioxidants, pectinase, pharmaceuticals.

The success in chemical control of plant diseases causing pathogens accompanied by environmental pollution and this leads to ecological imbalance with application of various pesticides resulted in their accumulation in soil, water and plants. Therefore, the scientific endeavour is directed towards the elaboration and wide application of biological methods and thus, the third part of this book includes nine chapters dealing with different diseases caused by fungi, bacteria,

viruses and mycoplasma on leafy vegetables, horticultural crops. Similarly, each chapter gives the disease management techniques, biological control measures, and eco-friendly approaches. This book is aimed to give an integrated view of its complex in the subject for young students, researchers, scientists and teaching community as whole.

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