

Preface

We have already published mycorrhiza volumes in the years 1991, 1992, 1995, 1999, and 2008. Since then, a lot of new research findings and approaches have been published in literature. The present volume will emphasize the current perspectives of mycorrhiza around the globe. Springer-verlag, Heidelberg, Germany, has invited us to compile three new volumes in quick succession (2017) highlighting the work on mycorrhiza after 2008. Mycorrhizas have been an essential stabilizing factor in the terrestrial ecosystems for centuries. These fungi aid in the productivity of plants via the formation of dynamic associations with plant roots. The symbiotic associations formed are an important subject to evaluate numerous opportunities using modern tools of biotechnology. The possibilities of genetically manipulating these associations have led to optimization of plant productivity in ecosystems with minimal risk of environmental damage. The resourceful management of mycorrhizal associations has the potential to favor the sustainable production of quality foods while ensuring environmental quality for future generations.

The unique associations formed by these fungi have sparked a vast array of interest in mycorrhizal studies. Recent developments in the study of mycorrhizas have encouraged us to present a new book on progress in this field. The fourth edition of the mycorrhiza book gives exemplary insight into the advancements in mycorrhizal studies. It is hoped that this new edition will interest readers in the latest results of mycorrhiza research and also encourage young researchers to prove the challenging field of mycorrhizal studies.

This volume consists of 18 chapters covering the diverse mycorrhizal associations by 46 subject specialists.

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