

Plants constitute an excellent ecosystem for microorganisms. The environmental conditions differ considerably between the highly variable aerial plant part and the more stable root system. Microbes interact with plant tissues and cells with different degrees of dependence. The most interesting from the microbial ecology point of view, however, are specific interactions developed by plant-beneficial (either non symbiotic or symbiotic) and pathogenic microorganisms. Beneficial interactions are caused by symbiotic and non-symbiotic bacteria and a highly specialized type of fungi, the mycorrhizae. The pathogenic and detrimental interactions of microbes involve viroids, viruses, bacteria and fungi, and lead to infectious diseases affecting only the plant kingdom. Microflora composition of any agro-ecosystem is governed by the equilibrium created by the associations and interactions of all flora and fauna found in the community. In soil, microorganisms live in close proximity and interact among themselves as well as with existing plant communities in different ways, which could be beneficial (mutualism, commensalism, proto-cooperation) or neutral (epiphytic). These microbial interactions govern the functioning and stability of agro-ecosystem, playing significant role in the production and productivity crops. Hence, this book on Plant-Microbe Interactions is aimed at bringing out the recent developments in this field including the molecular mechanisms and proteomics involved in the establishment of Plant-Microbe Interactions. The book reviews the enormous diversity of plant associated microbes, and their molecular mechanisms, small molecules and proteomics involved in the establishment of their mutual interactions. Utilization of these rhizospheric, phyllospheric and endophytic microbes as nutrient providers, in combating phytopathogens and ameliorating the stressed and polluted soils is also explained. Importantly, the book also throws light on the unanswered questions and future direction of research in the field. It illustrates how the basic knowledge can be amalgamated with advanced technology to design the future bio-formulations. This book will be useful in providing latest information in this topic to Scientists, Researchers, Ph.D and PG students working in the field of Plant Sciences.

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Collection: Plant-Microbe Interactions. Deciphering how plants respond to pathogen infection or non-pathogen symbiosis and how microbes establish the symbiotic or pathogenic interactions with their hosts is not only a fundamental aspect of plant biology research but also important for crop improvement. Plant Microbe Interactions publishes original, refereed research on the interactions between plants and pathogenic, endophytic, and symbiotic microorganisms. Summary Table - Manuscript Guidelines - Manuscript - Figure and Table. Of the many ways that plants interact with microbes, three aspects are highlighted in this issue: interactions where the plant benefits from the. Deciphering plant-microbe interactions is a promising aspect to understand the benefits and the pathogenic effect of microbes and crop. Publication Stages. Accepted Manuscript - Manuscripts that have been selected for publication. They have not been typeset and the text may change before final .

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