



Interactions Between Non-Pathogenic Soil Microorganisms And Plants (Developments in agricultural and managed-forest ecology)

Y. R. Dommergues, S.V. Krupa

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Interactions between Non-Pathogenic Soil Microorganisms and Plants provides a comprehensive discussion of the non-pathogenic microorganisms associated with roots. It describes how a myriad of soil microorganisms affect plant growth, and how climatic and edaphic conditions contribute to the magnitude of microbial activity.

The book is divided into 11 chapters that cover the plant-microorganism system; growth, structure, and physiology of roots; and nutrient uptake. It also explains the root exudates and exudation; energy flow in the plant; and rhizosphere. Legume symbiosis and root nodule symbioses in non-leguminous nitrogen fixing plants are also discussed. Moreover, the book explains the mycorrhizae and the impact of climatic and edaphic conditions on soil management and plant growth.

The information that the book presents serves as a useful focal point for further studies on the interactions between plants and soil microorganisms. Thus, it provides an impetus for the development of agricultural practices that could improve food production, while mitigating anthropogenic pollution of agrosystems and waste of energy resources. Students, lecturers, and research workers in plant physiology and anatomy, microbiology, soil science, general ecology, and agronomy will find this book an invaluable reference for their learning and practice.

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