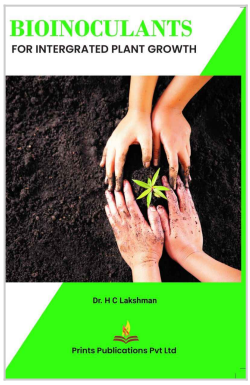
Book Information Sheet

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Bioinoculants For Integrated Plant Growth

Author: Dr. H C Lakshman

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Dr. H C Lakshman, Professor and Chairman, Department of Botany, Karnataka University, Dharwad. M.Sc. from Bangalore University and PhD from Karnataka University Dharwad and training in fermentation technology in C.F.T.R.I. , Mysore . He has 29 year of teaching

experience and 20 years of research experience. He has published 119 research papers in National and International journals and has 8 books for his contribution. He attended 45 national and 8 international conferences / symposia. He successfully guided 10 PhD and 6 MPhil students. He evaluated 25 PhD thesis from different Universities of India. He visited France and Italy in 2001. He is a member in 22 academic and research organizations. He is a fellow of I.S.F.E.Sc. Indian Society for Environmental Society in 1999. He is a recipient of C V Raman award in 2006. He was awarded honorary fellowship Fellow of International Society of Ecology and Communication (F.I.S.E.C.) by Vinoba Bhave University, Hazaribag, Jharkhand on 27-07-2009 at International Conference. Currently, he is working as a Senior Professor in Botany (Microbiology Lab), associated with Plant Science, Microbiology, Microbial Ecology and Plant Biotechnology.

Product Description

Sustainability in agriculture, forestry, and range of management requires balanced functional microbial ecosystems. The association of plant roots with AM fungi is a key factor in the below ground network essential to ecosystem function. The association of AM fungi creates an intimate link between plant and the soil and plays a significant role in the absorption of mineral nutrients. The ability of the association to enhance the plant growth and development has stimulated research, and the recent application of molecular, biochemical, genetic approaches are providing new insight into symbiosis. 90% of the flowering plants show symbiotic relationship with arbuscular mycorrhizal fungi. Improved growth, health and stress resistance of mycorrhizal plants are well established, particularly for the plants growing in nutrients limiting condition. In contrast to the ‘gene for gene’ specificity observed in many plant-pathogen interactions, the AM fungal symbiosis is essentially non-specific, and a single species of AM fungus has the capacity to colonize many plant species although extensive colonization of root cortex occurs. They help the plants to acquire mineral nutrients from soil especially the immobile elements such as P, Zn, Cu but also mobile ions such as S, Ca, K, Fe, Mg, Mn, Cl, Br and N. The present book brought out most of the recent work which is being carried out in various research institutes in all over the world. This book is not only useful for plant scientist, it is most useful for agricultural, Microbiology, horticulture and forest nurseries. It contains different chapters divided into three groups. A. Growth response and improvement of plant growth, yield and biomass production containing 12 chapters. B. Interaction between arbuscular mycorrhizal fungi and other beneficial micro-organisms containing 9 chapters. C. Mycorrhizal technology in adverse environment containing 8 chapters