

Advancements in Micronutrient Research



[A. Hemantaranjan](#)

ISBN	: 9788172335755	Book Format	: Book
Language	: English	Binding	: Hard Bound
Imprint	: Scientific Publishers	Edition	: 1
Pages	: 465	© Year	: 2018
Weight	: 720 Gms	Trim Size	: 5.75 X 8.75

Print Book : ₹4,500.00

Blurb

The treatise, *Advancements in Micronutrient Research* is a summary of important new findings on Micronutrients and of basic and applied needs in microelement nutrition. It has been designed with a view to a thorough apprehension of multidisciplinary research in the most fascinating area of agriculture i.e Micronutrients. Impressive growth has been achieved during the last two decades in our understanding of the mechanism of nutrient uptake and their function in Plant metabolism, simultaneously with the corresponding advances made in increasing crop yield by the supply of various micronutrients inspite of wide range of variability within cultivar of a given species. Thus, the book is a treasure for interdisciplinary exchange of information, which is a valuable contribution to the understanding of trace element nutrition in plants. As can be seen from the chapters, the approach to the topics ranges from theoretical to applied, molecular to organismic, and single to multivariable systems. In addition, an interrelationship among different elements have been elaborated along with the concept of inter disciplinary trace element research and the physiological importance of a number of hardly known trace elements. This treatise is tremendously helpful for researchers in the various fields of agriculture, biological and environmental sciences, who already have or aspire to have a profound knowledge of Plant Physiology, Plant Biochemistry, Soil Science and Genetics

Table of Contents

1. General Overview of the Development of Trace Element Research – I. PAIS
2. The Importance of Hardly known trace elements – I. PAIS
3. Some insights in the Determination of Seleniiumin Biological And Environmental Samples by Graphite Furnace Atomic Absorption Spectrometry – A. Javier Aller
4. Overview of the Determination of Beryllium in Environmental and Biological Samples by Atomic Absorpton and Atomic Emission Spectrometeies – A.J. Aller.
5. Mineral Requirements of the Free-living and Symbiotic Cyaniobacteria, with special reference to micronutrition, for Raising Laboratory Cultures – A. Vaishampayan
6. Legume/Rhizobial interactions within the legume root nodule : Role of the Plastic in Metabolic Reactions Involving Iron Nutrition – James A. Guikema et al.
7. Physiological and Biochemical significance of Zinc – Nutrition in Plants – A. Hemantaranjan
8. Micronutrients – Biochemical and Physiological Activities – I.C. Dave
9. Physiology and Biochemistry of Micronutrient Elements – S.C. Agarwal and Chitralkha Chaterjee
10. Vesicular-Arbuscular Mycorrhizae and Micronutrient Nutrition – S.B. Persad – Chinnery and Louis E. Chinnery
11. Micronutrient Stress and Genetic Variability – I.C. Dave
12. Techniques in Micronutrient Research – S.C. Agarwala and Chitralkha Chaterjee.

This is computer generated document and does not require signature