Special Issue

Micronutrient Deficiency and Biofortification in Cropping Systems

Message from the Guest Editor

Micronutrient deficiencies affect more than 2 billion people worldwide due to the low mineral content of foods. One possible solution to this problem is the biofortification of crops, which is cost-effective and can be applied by rural populations. With the expansion of chemical and biological knowledge, new methods are constantly developed to increase the efficiency of nutrient absorption by plants. It is important to investigate the effectiveness of different plant species in terms of the enrichment of a particular element so that the most effective species can be selected. It is also necessary to study the appropriate biofortification method for a given plant–microelement combination: irrigation, fertilization, foliar fertilization, or microbial methods. The effectiveness of enrichment can be greatly influenced by the chemical form in which a given element is used, and by other elements that may affect its uptake. Thus, in the field of biofortification, there are a number of open issues that can be addressed in order to supply the growing population with nutritious food in a sustainable way.

Guest Editor

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