Special Issue

From Biofortification to Tailored Crops and Food Products

Message from the Guest Editors

Biofortification is the process used to increase the concentration of a nutrient in edible portions of plants through genetic selection or agronomic intervention. A novel challenge in agriculture is the production of tailored foods, i.e. foods specifically suitable for target groups of people with particular nutritional needs. In the future, approaches should therefore consider innovative agronomics methods including soilless systems; the application of tailored radiation wavelengths and levels; and biofortification by using nanocarriers, nanoparticles, and/or natural organic matrices as a natural source of essential elements for human health. Finally, possible secondary effects, such as altered content of other nutrients and antinutrient compounds and effects during post-harvest including long-term storage of produce, as well as the bioavailability of the nutrient in the biofortified crop, need to be considered.

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