



## Biofortification of Crops

Guest Editors:

**Dr. Erik Alexandersson**  
erik.alexandersson@slu.se

**Dr. Laura Jaakola**  
laura.jaakola@uit.no

**Dr. Massimiliano D'Imperio**  
massimiliano.dimperio@  
ispa.cnr.it

**Dr. Francesco Di Gioia**  
fxd92@psu.edu

**Dr. Elizabeth Parkes**  
E.Parkes@cgiar.org

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### Message from the Guest Editors

Dear Colleagues,

Dietary diversification by supplementation or biofortification of staple foods are complementary approaches that can be used in addressing potential micronutrient deficiency. Biofortification, e.g., by breeding of preferred varieties to increase nutrient content, has the advantage that it provides the farmer and consumer with a ready-to-eat product.

It can be done by classical breeding; however, a major challenge is that this is a lengthy process based on the recurrent selection of phenotypes. In the future, approaches should therefore consider marker-assisted breeding strategies as well as gene editing to increase the levels of micronutrients. Both these ways require an advanced genetic and molecular understanding of the *in planta* biosynthesis of nutrients. Finally, possible secondary effects such as altered content of “off-target” compounds, 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.

Dr. Erik Alexandersson  
*Guest Editor*





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## Editor-in-Chief

### **Prof. Dr. Peter Langridge**

School of Agriculture, Food and Wine, University of Adelaide, Urrbrae SA 5064, Australia

## Message from the Editor-in-Chief

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*Agronomy*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
Fax: +41 61 302 89 18  
www.mdpi.com

mdpi.com/journal/agronomy  
agronomy@mdpi.com