Special Issue

Biofortification of Crops

Message from the Guest Editors

Dietary diversification by supplementation or biofortification of staple foods are complementary approaches that can be used in addressing potential micronutrient deficiency. Bioforticiation, 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 bioavilablility of the nutrient in the bioifortified crop need to be considered.

Guest Editors

Dr. Erik Alexandersson

Dr. Laura Jaakola

Dr. Massimiliano D'Imperio

Dr. Francesco Di Gioia

Dr. Elizabeth Parkes

Deadline for manuscript submissions

closed (1 October 2019)

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/22680

Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

mdpi.com/journal/agronomy

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/journal/agronomy

MDPI

About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)