



Strategies to Improve the Security and Nutritional Quality of Crop Species

Guest Editors:

Prof. Dr. Grazyna Podolska

Institute of Soil Science and Plant
Cultivation—State Research
Institute, Czartoryskich 8 St, 24-
100 Pulawy, Poland

Dr. Anna Szafranska

Department of Grain Processing
and Bakery, Prof. Waclaw
Dabrowski Institute of
Agricultural and Food
Biotechnology—State Research
Institute, 02-532 Warsaw, Poland

Deadline for manuscript
submissions:

31 December 2024

Message from the Guest Editors

Dear Colleagues,

The quality of the raw material supplied to the industry affects the final quality of the product obtained. Therefore, the cultivation technology of individual plant species is of colossal importance. Additionally, fungal diseases can lead to reduced quality and the production of toxic metabolites known as mycotoxins. Due to climate change, urbanisation and other human activities, there is a growing concern about the levels of these contaminants in food. In recent years, the use of biotechnology and genome editing of plants in order to enhance their nutritional value or increase their resistance to pests or unfavourable environmental conditions, such as drought, is also gaining more focus.

This Special Issue focuses on the role that soil quality, agrotechnology (tillage, forecrop, fertilisation, crop protection, harvesting) and varieties play in the production of high-quality food. For this reason, highly interdisciplinary quality research results from different research fields, including genetics, new genomic techniques and breeding, agriculture, food technology, and ecology, are welcome. Original scientific and review papers will be accepted.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
School of Life and Environmental
Sciences, The University of
Sydney, Sydney, NSW 2006,
Australia

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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, RePEc, and other databases.

Journal Rank: JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

Contact Us

Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agriculture
agriculture@mdpi.com
X@AgricultureMdpi