

Special Issue

New Advances in Cereal Breeding and in Cereal Processing Technologies

Message from the Guest Editors

This Special Issue is focused on cereals and covers two main topics: the use of new technologies in plant breeding and the application of innovative processing technologies for the production of cereal-based foods. Knowledge on and the diffusion of new breeding techniques (i.e., fast breeding, genome editing, cisgenesis, and intragenesis) have led to new perspectives for the improvement of different traits, such as yield, resilience to biotic and abiotic stresses, and technological and nutritional quality. The use of new technologies in cereal processing is an effective way to produce foods free from chemical contaminants or enriched with beneficial compounds to ensure a variety of safe and healthy products.

Guest Editors

Dr. Alessandro Cammerata

Dr. Samuela Palombieri

Dr. Rosita Marabottini

Dr. Francesco Sestili

Deadline for manuscript submissions

closed (20 February 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/179799

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls-ci@mdpi.com

mdpi.com/journal/

appls-ci





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)