



plants



an Open Access Journal by MDPI

Rye Genetics, Genomics and Breeding

Guest Editors:

Dr. Rolf Schlegel

Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Erwin-Baur-Str. 27, 06484 Quedlinburg, Germany

Prof. Dr. Thomas Miedaner

State Plant Breeding Institute (720), University of Hohenheim, Stuttgart, Germany

Dr. Viktor Korzun

KWS SAAT SE & Co. KGaA, Grimsehlstr. 31, 37555 Einbeck, Germany

Message from the Guest Editors

Rye was domesticated first in Anatolia from wild grass of *Secale strictum*. In Europe, and later in some other regions of the world, it became to flourish in unforgiving environments and poor soils. For long, it served as a main cereal crop of Northern Europe. Despite formidable achievements during the last few decades, particularly by utilization of hybrid varieties, major challenges in rye production remain. Breeding of cultivars with high yield potential, strong fungi defense, and targeted grain qualities is inevitable to further advance rye to a high-performance crop with different types of end-use. Progress in rye phenomics and functional genomics research is focused on improved growth and development.

Deadline for manuscript submissions:

closed (31 January 2023)



mdpi.com/si/102892

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

Contact Us

Plants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)