

Special Issue

Breeding Healthy Cereals: Genetic Improvement of Fusarium Resistance

Message from the Guest Editors

Dear colleagues,

Fusarium head blight (FHB) is one of the most hazardous diseases on small-grain cereals. Recent changes in climate and cropping systems have made FHB epidemics more frequent and severe in other production areas with humid climates. Strict toxin limits have also made the issues more pressing. Main results from the research have been that resistance is partial and quantitative, but general towards species and races of the fungi. Large numbers of QTL have been identified in wheat and barley, and metastudies have provided the identification of important loci like e.g. Fhb1 to Fhb5 in wheat. Three candidate loci have been found for the former, but the causal factor is still open. In other species, like oat, the studies are few, and comparative genomics across species are none. Developments from the past decade are the importance of flowering biology (avoidance), the potentials for genomic selection and more accurate phenotyping all hold promise for important savings in breeding new cultivars. New studies in these and emerging fields are welcome for this special issue.

Guest Editors

Dr. Morten Lillemo

Faculty of Biosciences, Norwegian University of Life Sciences, P.O. Box 5003, NO-1432 Ås, Norway

Prof. Dr. Åsmund Bjørnstad

Department of Plant Sciences, Norwegian University of Life Sciences, IHA/CIGENE, P.O. Box 5003, NO-1432 Ås, Norway

Deadline for manuscript submissions

closed (20 November 2020)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/25337

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

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





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



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



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)