Special Issue

Unveiling Host-Pathogen Interactions in Brassicaceae: Insights into Disease Resistance Mechanisms and Molecular Regulation

Message from the Guest Editors

Brassicaceae, one of the most interesting angiosperms families, contains over 4000 species, including such economically important ones as Brassica juncea, B. napus, and B. oleracea, which are all grown worldwide. These species play roles as food, fodder, and biofuel. However, the overall local and global changes in the climate and the increasing anthropogenic pressures trigger the uncontrollable spreading of pathogeninduced diseases (originating from viral, bacterial, fungal, and oomycete pathogens) and the appearance of new pathogenic interactions. Therefore, searching for sources of crop plant resistance that can be introduced and broadly used in agriculture is one of the most desirable and modern approaches in plant research. Innate immunity-based plant resistance, including systemic acquired resistance (SAR) and induced systemic resistance (ISR), is widely investigated in Brassicaceae pathosystems by many research groups worldwide. In this Special Issue, we welcome original research papers and reviews on all aspects of resistant, tolerant, and susceptible *Brassicaceae* responses to various

pathogens under laboratory or field conditions.

Guest Editors

Prof. Dr. Andrzej Kiejstut Kononowicz

Department of Plant Ecophysiology, Faculty of Biology and Environmental Protection, University of Lodz, 90-237 Lodz, Poland

Dr. Violetta Katarzyna Macioszek

Department of Biology and Plant Ecology, Faculty of Biology, University of Bialystok, 15-245 Bialystok, Poland

Deadline for manuscript submissions

5 June 2026



Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 6.3



mdpi.com/si/202122

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

mdpi.com/journal/agriculture





Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 6.3



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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

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)

