



Rhizobial Symbiosis in Crop Legumes: Molecular and Cellular Aspects

Guest Editors:

Dr. Anna Tsyganova

Department of Biotechnology,
All-Russia Research Institute for
Agricultural Microbiology, Saint
Petersburg 196608, Russia

Dr. Viktor E. Tsyganov

Department of Biotechnology,
All-Russia Research Institute for
Agricultural Microbiology, Saint
Petersburg 196608, Russia

Deadline for manuscript
submissions:

closed (1 May 2022)

Message from the Guest Editors

We invite you to please share your findings on the molecular and cellular mechanisms of symbiotic nitrogen fixation in crops in this Special Issue. Submissions on the following topics (but not limited to) are invited: (1) omics sciences in the crop symbiotic nitrogen fixation, (2) interactions of macro- and micro-symbionts during the development of the plant-microbe interface, (3) signal transduction during the formation and development of a symbiotic nodule, (4) plant cell reorganization during rhizobia accommodation, and (5) the participation of phytohormones and reactive oxygen species in the formation and development of a symbiotic nodule. Original research papers, methods, reviews, and short communications are also welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

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.

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)

Contact Us

Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/agronomy
agronomy@mdpi.com
[X@Agronomy_Mdpi](https://twitter.com/Agronomy_Mdpi)