



plants



an Open Access Journal by MDPI

Development of the Legume Root Nodules

Guest Editors:

Dr. Elena Dolgikh

All-Russia Research Institute for
Agricultural Microbiology,
Podbelsky Chausse 3, Pushkin,
196608 St. Petersburg, Russia

Dr. Sandra Bensmihen

Laboratory of Plant Microbe
Environment Interactions
(LIPME), Toulouse, France

Deadline for manuscript
submissions:

closed (30 June 2023)

Message from the Guest Editors

Dear Colleagues,

The formation of symbiotic nitrogen-fixing nodules represents a process in which the development of new organs substantially depends on the impact of exogenous and endogenous factors. This regulation can be achieved by means of a complex network of receptors, transcription factors and phytohormones. However, the exact mechanisms underlying such interactions to regulate nodulation remain unknown. The development of the legume root nodule raises many interesting questions concerning plant cell proliferation and differentiation, concerted alteration in the pattern of gene expression in plant and bacterial cells, signal regulation and phytohormonal control, as well as similarities with other development processes, such as lateral root formation. This Special Issue of *Plants* will highlight the latest data concerning developmental regulation of nodulation.



mdpi.com/si/87977

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)