



Bacteria Present in Nitrogen-Fixing Nodules

Guest Editor:

Prof. Dr. Katharina Pawlowski

Department of Ecology,
Environment and Plant Sciences,
Stockholm University, 10691
Stockholm, Sweden

Deadline for manuscript
submissions:

closed (15 May 2023)

Message from the Guest Editor

This Special Issue will combine reviews and research articles addressing novel questions in the context of nitrogen-fixing root nodule symbioses. Suitable topics include, but are not limited to, the following themes and questions:

- Analysis of nodule metagenomes, or 16S profiles, of surface-sterilized legume or actinorhizal nodules: which bacterial groups are commonly present? Which factors determine the composition of the non-rhizobial or non-*Frankia* communities?
- Which soil bacteria improve nodulation, and which soil bacteria end up inside nodule tissues? Do these groups overlap?
- How do non-rhizobia in legume nodules—or non-*Frankia* bacteria in actinorhizal nodules—affect the nodule metabolome or the nodule transcriptome?
- Is there evidence for interactions between nitrogen-fixing microsymbionts and other nodule bacteria?

Moreover, the methodological aspect should not be neglected: which DNA isolation methods are best suited to explore the diversity of bacteria in nodules?





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. José L. Quiles

Department of Physiology,
Institute of Nutrition and Food
Technology “Jose Mataix”,
Biomedical Research Center,
University of Granada, Avda.
Conocimiento s/n, 18100 Armilla,
Granada, Spain

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI