Special Issue

Rhizobium–Legume Symbiosis

Message from the Guest Editor

Legumes establish symbiosis with root nodule bacteria (rhizobia) and form nitrogen-fixing nodules in the roots. The nitrogen fixation by rhizobia serves as an important nitrogen source for grain legumes like soybean and pea. Also, by utilizing legume crops for green manure, mixed- and intercropping, soil fertility and the productivity of subsequent crops are improved. The inoculation of rhizobia has been carried out to obtain the benefits of symbiotic nitrogen fixation, however, its effectiveness is often affected by the compatibility between legumes and rhizobia, the competition with indigenous microbiota, and the soil's chemical properties. This Special Issue will focus on biotic and abiotic factors controlling legume–rhizobium symbiosis. We welcome novel research related to understanding the basic principles of legume–rhizobium symbiosis from molecular- to field-level toward the effective use of symbiotic nitrogen fixation in agriculture.

Guest Editor

Dr. Shin Okazaki
Tokyo University of Agriculture and Technology, Fuchu, Tokyo 1838509, Japan

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

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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