



## Advances in Legume Nitrogen Fixation in Agroecosystems

Guest Editor:

**Prof. Dr. Takuji Ohyama**

Laboratory of Biochemistry in  
Plant Productivity, Department of  
Agricultural Chemistry, Tokyo  
University of Agriculture, Tokyo  
156-8502, Japan

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### Message from the Guest Editor

Nowadays, farmers can use chemical nitrogen fertilizers for agricultural production. As a result, the productivity of crops increased several-fold during the 20<sup>th</sup> century to meet the demand of the increasing world population. On the other hand, the excess or inappropriate use of nitrogen fertilizers caused environmental problems such as nitrate leaching and contamination in ground water, and the emission of the global warming gas N<sub>2</sub>O. The use of legume nitrogen fixation in agriculture or agroecosystems may be one of the best solutions to keep both crop productivity high and to solve the environmental issues.

This Special Issue focuses on the frontiers of the use of legume nitrogen fixation in agroecosystems, including crop production in agricultural fields, and the maintenance of grassland and forestry. For this reason, we welcome interdisciplinary studies from disparate research fields, including agricultural sciences, environmental sciences, ecological sciences, crop management, fertilizer sciences, etc., to improve crop productivity and reduce the ecological problems for sustainable agriculture. Original research articles and reviews are accepted.





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Sydney Institute of Agriculture,  
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Agriculture Editorial Office  
MDPI, St. Alban-Anlage 66  
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