# Special Issue

# Biological Nitrogen Fixation Technology in Sustainable Agroecosystem

### Message from the Guest Editors

This Special Issue of *Agronomy* aims to promote biological nitrogen (N) fixation as the promising tool to improve and sustain crop yield and ecosystems functioning, conjointly with a reduction of the industrial production of inorganic N and its consequences on the Earth carbon (C) balance. Many N fixation processes can be concerned, from direct fixation by soil bacteria to symbioses between microorganisms and vegetal organs, especially of legume species. Many mechanisms can be studied from genomes of plant species and associated symbionts, as well as ecological equilibria between inorganic N, microorganisms, and plant roots. Studies on possible interaction of N fixation with other soil elements such as phosphorus (P) can be appreciated, such as those concerning N transfer from legumes to associated non-fixing plants. In any case, submissions improving the knowledge of biological mechanisms and related technologies on N fixation, such as modeling, are welcomed.

### Guest Editors

Prof. Marc Pansu

Dr. Hatem Ibrahim

Dr. Mourad Latati

### Deadline for manuscript submissions

closed (31 July 2021)

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