

## Special Issue

# Symbiotic Frontiers: Microbial Innovations Shaping Sustainable and Resilient Agriculture

### Message from the Guest Editor

Intensive agriculture presents significant challenges and adverse environmental consequences. Contamination of groundwater and watercourses, soil pollution, and greenhouse gas emissions are just a few of the problems associated with conventional agriculture practices. These negative impacts highlight the urgent need to explore methods that can sustain agricultural productivity without compromising environmental health and food security. Microorganisms play essential roles in the functioning of agricultural systems, from promoting soil health and increasing plant resilience to improving nutritional efficiency and reducing reliance on harmful chemical inputs. The development of next-generation biofertilizers, advanced seed inoculation techniques, and management practices that maximize biodiversity and ecological function of the soil are some of the emerging advancements essential for reshaping agriculture in a sustainable and resilient manner. This Special Issue focuses on soil microbiology as a promising source of innovative solutions, offering new perspectives to tackle agricultural challenges in an ecologically responsible and sustainable way.

### Guest Editor

Dr. Thiago Gumiere

Department of Soil and Agri-Food Engineering, Faculty of Agriculture and Food Science, Université Laval, Québec City, QC G1V 0A6, Canada

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## Agriculture

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*Agriculture*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agriculture@mdpi.com](mailto:agriculture@mdpi.com)

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### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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