

## Special Issue

# Soil Microbes and Nutrient Recycling in Agroecosystems

### Message from the Guest Editor

For about fifty years, the soil microbial biomass has been studied quantitatively with a focus on C, N and P. However, to what extent it acts as a nutrient reservoir for other plant nutrients is less well known. Synchronising nutrient release by microbes and from microbial biomass with plant nutrient demand remains challenging for farmers. Increasing nutrient use efficiency in sustainable agriculture requires improved quantification of microbial nutrient provision to crops as affected by agronomic means. Scientific knowledge gaps still exist in linking microbial pool size, its stoichiometry, physiology and microbial community composition to improve quantitative predictions of short term nutrient release in arable soils. This Special Issue aims to filling the knowledge gap and improving our understanding of how to manage the soil microbial community as facilitator of plant nutrition to conceptualize soil biological plant nutrition in agriculture. This SI will focus on scientific work dealing with the quantification of the soil microbial biomass as a nutrient pool and facilitator of nutrient release in arable soils.

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### Guest Editor

Prof. Dr. Florian Wichern

Department of Soil Science and Plant Nutrition, Faculty of Life Sciences, Rhine-Waal University of Applied Sciences, Marie-Curie-Straße 1, 47533 Kleve, Germany

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### Deadline for manuscript submissions

closed (15 June 2021)



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*Agronomy*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agronomy@mdpi.com](mailto: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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