

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.

Guest Editor

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Deadline for manuscript submissions

closed (15 June 2021)



Agronomy

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Impact Factor 3.4
CiteScore 6.7



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