

## **BLOCK C (14:00-15:45)**

### Managing Plant-Soil Diversity and Interactions to Promote Ecosystem ServicesInvolved

Involved projects: AGROEcoSeqC, EnergyLink

Conveners: Alessandra Trinchera (CREA), Sebastien Fontaine (INRAE)

The concept of soil health is unavoidably connected to its multifunctionality, strongly dependent on soil biodiversity. The recently changed and still evolving environmental conditions call for management practices able to increase biodiversity and the functional redundancy of soil biological communities to ensure adequate ecosystem resilience, contemporary optimizing the synchronization of nutrients plant demand and availability in soils.

This breakout session will focus on the importance of soil biodiversity and related ecosystem services: contributions describing labelling methods, molecular markers, assessment of plant diversity, geno- and phenotypic profiling of soil microbial community, enzymatic activities, soil soluble C pools, plant-microbial symbiosis, greenhouse gas emission, and indicators of ecosystem services observed in long-term experiments from crop- and grasslands, as well as application of modelling and multivariate approaches, are welcome.