Block 1: Eucariotes across scales 14:00-14:20
7 Soil fauna regulates the ecosystem service/disservice balance in mulched soils
2 Local, landscape and continental scale factors controlling earthworm community structure
3 Effects of earthworm communities on water infiltration in wet soils with energy crops
   Automatic detection and mapping of European ground squirrel burrows on UAV-based multi- and hyperspectral
   imagery with classification methods
   Relating sampling effort to the detection of spatial patterns of species richness in the soil seed bank of a
   mediterranean shrubland.
6 How energy crops (Maize, Field grass, Cup Plant) affect soil microarthropods and their decomposition services

Block 2: Microbial diversity and activity in agricultural soils 14:25-14:45
7 Long-term effects of tillage intensity on the distribution of microbial biomass and activity in four arable field-sites
   across Europe
8 Organic matter additions to soil and effects on microbially mediated carbon cycling
9 Soil microbial communities from olive cultivars are shaped by seasonality and geographical scales
   Effects of agricultural soil management practices on soil microbiota across Europe – investigations in seven long term
   field experiments
10 Microbial properties in European arable soils with different tillage systems

Block 3: Soil microbes under change 14:50-15:05
12 From soil degradation to restoration via soil microorganisms
   Dynamics of selected chemical and microbiological properties changes in soils after application of ultra-fine powdered
   calcium carbonate – incubation studies
14 The effects of natural forest succession on soil respiration in Bieszczady National Park (south-eastern Poland)
15 Microbiological and FTIR applications in Atlantic forest regeneration areas
   Evaluation of the enzymatic activity and diversity of soil microorganism in Andean temperate forests degradation
   gradient
17 Soil microbial functional diversity along an elevation gradient in Northwestern Caucasus

Block 4: New concepts and models in soil microbiology 15:10-15:25
18 Into the soil labyrinth: soil physical structure as a driver of trophic interactions and soil biodiversity
19 Towards standardized experimentation in soil research – a synthetic ecology approach
20 Modelling the role of selection and complementarity in ecosystem function under climate change
21 Microbial diversity drives carbon use efficiency in a model soil
22 Microbial necromass as a source for soil organic matter formation - implications for soil processes

Block 5: Microbial processes, physiology and CUE 15:25-15:45
23 Litter decomposition under drought related with litter and decomposer diversity
24 Impact of soil sample pre-treatment on microbial carbon use efficiency and associated parameters
25 Quantifying microbial growth and carbon use efficiency in dry soil environments via 18O water vapor equilibration
26 New insights on carbon use efficiency using calorespirometry – a bioenergetics-based model
   Microbial and abiotic interactions driven higher microbial anabolism on organic carbon accumulation during 2000
   years of paddy soil development in the Yangtze River Delta, China