

**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
- 4 imagery with classification methods  
Relating sampling effort to the detection of spatial patterns of species richness in the soil seed bank of a
- 5 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**

- Long-term effects of tillage intensity on the distribution of microbial biomass and activity in four arable field-sites
- 7 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
  - 10 field experiments
  - 11 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
- 13 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
- 16 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  $^{18}O$  water vapor equilibration
- 26 New insights on carbon use efficiency using calorimetry – a bioenergetics-based model  
Microbial and abiotic interactions driven higher microbial anabolism on organic carbon accumulation during 2000
- 27 years of paddy soil development in the Yangtze River Delta, China

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