Trade-offs between soil carbon sequestration, greenhousegas emissions and nutrient losses in agricultural soils across Europe: mechanisms and management options (TRACE-Soil project)

Convener

- Cristina Aponte (INIA)

Programme outline

Keynote speaker #1 *(15' + 5' questions, Sara Hallin- SLU, focus on soil biota)*	20'
2 short presentations *(10' each, including time for questions)*	20'
Keynote speaker #2 *(15' + 5' questions, Lars Munkholm- AU, focus on soil physical properties)*	20'
2 short presentations *(10' each, including time for questions)*	20'
Conclusion and wrapping up	5'

Description

Soil carbon sequestration in agroecosystems can promote soil quality and biodiversity, but come at a cost of increased nutrient losses and greenhouse gas emissions. Understanding the mechanisms underpinning these trade-offs is essential to better predict the outcome of management options aimed at increasing soil carbon storage.

In this session we will gain knowledge of the biological, physical and chemical mechanisms that underlie these trade-offs and synergies for different management options. The session will count with two exceptional keynote speakers: Sara Hallin (SLU) and Lars J. Munkholm (AU) who will discuss the influence of soil microbial and physical properties on these trade-offs.

Instructions for participants

Participants are invited to apply for 10' oral contributions to present earlier research on the topic. Please submit an abstract of max. 500 words.