

## **BLOCK A (9:00-10:45)**

### 1. Carbon sequestration at national and European scale

Involved projects: CarboSeq, SIMPLE

Conveners: Sonja Keel (Agroscope), Felix Seidel (Thuenen)

Carbon sequestration in agricultural soils is a strategy that can contribute to climate change mitigation and generates large expectations on ecosystems to take up carbon dioxide from the atmosphere. The key for soil carbon sequestration is reaching a positive balance between carbon inputs and outputs. Enhanced inputs of organic matter to the soil can be achieved by improved management options, such as use of cover crops, increased incorporation of crop residues, addition of organic matter, optimization of varieties with increased root biomass, land use change, or introduction of agroforestry measures.

As these measures are affected by bio-physical (e.g. soil type, climate) and technical constraints (e.g. irrigation) a differentiated analysis at national and European scale is necessary in order to assess the true potential of agricultural measures that enhance soil carbon sequestration when implemented on large scale.

In this session, we welcome contributions that give insights into the topic of soil carbon sequestration in agricultural lands. A special focus will be given to management practices affecting this process in European countries and at the European scale.