



The CIRCASA project: International knowledge system on SOC in agriculture

Cristina Arias-Navarro (1), Pete Smith (2), and Jean-Francois Soussana (1)

(1) Institut National de la Recherche Agronomique (INRA), Paris, France, (2) School of Biological Sciences, University of Aberdeen, Aberdeen, UK

Targeting ambitious changes in agricultural practices that would preserve restore and enhance soil carbon and soil health requires a better-structured international research cooperation. In this context, overarching goal of CIRCASA (Coordination of International Research Cooperation on soil CARbon Sequestration in Agriculture) is to develop international synergies concerning research and knowledge exchange in the field of carbon sequestration in agricultural soils at European Union and global levels. By combining geo-referenced meta-data and data from models and synthesis activities and methodological guidelines the foundation for an international knowledge system on SOC in agriculture is being established and will support the development of meta-analyses showing the role of soil carbon for food supply, climate change mitigation and adaptation in different agricultural systems, soil and climate conditions. This international knowledge information system will help researchers in increasing international cooperation and prepare research alignment. It will also provide important recommendations for knowledge synthesis activities and identification of science needs to advance the knowledge base and technological capacity – as input to develop a strategic research agenda on SOC sequestration.