**Session Proposal**

# Session Title

Soil organic matter transformation, stabilization and storage

# Session Organizers

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# Session Description

Soil organic matter (SOM) exerts a great influence on physical, chemical, and biological soil properties, thus playing a fundamental role in agronomic production and environmental quality. At a global scale, SOM represents the largest terrestrial organic carbon (C) stock, which can have significant impacts on atmospheric greenhouse gas concentrations and thus on climate. Changes in soil organic C content are the result of the balance of inputs and losses, which strongly depends on the processes of organic C stabilization and protection from decomposition in the soil.

This session will provide a forum for discussion of recent studies on the transformation, stabilization and sequestration mechanisms of organic C in soils, covering any physical, chemical, and biological aspects related to the selective preservation and formation of recalcitrant organic compounds, occlusion by macro and microaggregation, and chemical interaction with mineral phases and metal ions.

# Format

Oral presentations plus poster discussions

# Proposed Speakers

To be identified