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Tillage Effects on Soil Carbon Sequestration and Soil Organic Matter

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Message from the Guest Editor

Agro-ecosystem is an important part of terrestrial ecosystems, which accounts for 8% -10% of terrestrial soil carbon storage. Along with the global commitment to greenhouse gas reduction and food security, the dynamic change of soil organic carbon in agro-ecosystems is increasingly becoming a hot topic in the study of organic carbon. Different tillage measures affect carbon cycling of agro-ecosystem, improper agricultural management measures can easily cause more carbon emissions, and reasonable farming measures are useful for carbon sequestration in farmland. The accumulation of soil organic carbon can not only improve soil productivity, but also reduce the increase rate of atmospheric CO₂ concentration.

The aim of this issue is to bring together contributions about SOC storage and sequestration under different tillage measures, to show how different tillage measures affecting soil organic are intercepted for better understanding of SOC-related soil processes, and explore the stability mechanism of soil carbon sequestration for better assessing of how to achieve an increase in SOC stocks.



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