

Special Issue

Soil Health and Strategic Tillage in a Changing Climate

Message from the Guest Editor

The use of no-till (NT) within conservation agriculture systems has been identified as an important tool to help promote soil health and thus ensure future food security and buffer agricultural productivity against climate change. However, continuous use of NT can result in build-up of herbicide resistant weeds; the stratification of soil organic carbon, acidity and nutrients in surface soil; and an increased incidence of soil- and stubble-borne diseases. Strategic tillage (ST) has been identified as a strategy to help combat some of the problems that develop due to the long-term use of NT. However, it is not fully understood for a wide range of environments, soil types, and farming systems on how ST should be implemented so that it counters the negative impacts of long-term NT, but still preserves the beneficial impacts of NT for soil health. This special issue will highlight the recent progress that has been made in the implementation of ST in continuous NT farming systems in a wide range of cropping systems and across different agro-ecologies. Original research and reviews providing new insights in the application, and pros and cons of ST approaches are welcome.

Guest Editor

Dr. Yash Dang

School of Agriculture and Food Sciences, The University of Queensland, Brisbane, QLD 4072, Australia

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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