Special Issue

Sustainable Management of Legume Crops

Message from the Guest Editors

The growing demand for plant protein is prompting many countries to invest in projects that support legume production. New solutions that increase the attractiveness of these species to improve agrotechnical processes are being sought, with the purpose of making them more efficient, economical. and sustainable. Conventional tillage can be gradually replaced by new methods that reduce the time spent on tillage. The introduction of soil simplification is primarily an opportunity to reduce production costs. Due to ongoing climate change, reduced tillage, including the elimination of plowing, is considered particularly valuable for soil and environmental protection. Significant changes in fuel and herbicide costs are contributing to the growing popularity of zero-tillage technology as it becomes more commercially attractive. Moreover, reduced tillage can contribute to lower CO2 emissions. Therefore, it is essential to know the impact of reduced tillage on the chemical composition and biological life of the soil, soil microbial activity, the modification of seed yield, seed sowing value, and the seed chemical composition of such a globally popular crop like legumes.

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