

Special Issue

Sustainable Small Grain Cropping Systems: Circular Economy, Pollution Mitigation, and Farmer-Centric Innovation

Message from the Guest Editors

Farmers' decision-making lies at the heart of global socio-economic and environmental resilience. With agricultural systems facing mounting pressures due to climate change, resource scarcity, and market volatility, innovative solutions are required to reconcile the agricultural anthropogenic triptych: demand (food security and market needs), the environment (ecological health), and cost-effectiveness (economic viability). Small grains—such as wheat, barley, oats, and rye—play a pivotal role in this balance. For this Special Issue, we welcome groundbreaking research that will advance sustainable small-grain cropping systems, fostering a transition from conventional practices to holistic, environmentally conscious strategies. We invite contributions that address the following themes:

- Climate-smart and low-input practices;
- Healthier products and ecosystems;
- Integration of the circular economy into cropping systems;
- Farmer-centric decision-making and technology;
- Genomic innovations to enhance ecological sustainability;
- Pollution mitigation and climate resilience.

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