Special Issue

Genetics, Genomics and Breeding of Minor Cereals

Message from the Guest Editor

Minor cereals, such as foxtail millet, sorghum, broomcorn millet, edible beans, buckwheat, oats, etc., are widely cultivated worldwide for grain food and forage consumption, particularly in developing and underdeveloped countries with low productivity conditions. Their resilience to drought and harsh environments makes them well-suited for cultivation in challenging conditions. Additionally, minor cereals are nutrient-dense, containing a blend of micro- and macro-nutrients, proteins, essential amino acids, dietary fiber, and resistant starch, providing valuable supplements to staple cereal crops like rice, maize, wheat, and soybeans globally. This Special Issue aims to delve into the dissection of key traits, such as yield potential, stress tolerance, disease resistance, and quality formation, utilizing genetic (forward and reverse) and genomic approaches to enhance the yield and quality potential of relevant minor crop species. This research has the potential to benefit future breeding programs for minor cereals on a global scale, especially in underdeveloped countries facing low productivity conditions in Asia and Africa.

Guest Editor

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