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Modifying the Gene and Genome Space in Wheat

Guest Editor:

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Deadline for manuscript submissions:

closed (27 August 2021)

Message from the Guest Editor

A Special Issue on "Modifying the Gene and Genome Space in Wheat" is planned for *IJMS*, and will include papers with new research data and timely review articles focused on the "plasticity" of the genome that is possible because of buffering effects from having three (homoeologous) genomes coexisting in the same nucleus. Modification to the gene and genome space can take the form of breeding-based selection for changes driven by adaption to specific environments and abiotic/biotic chromosome stress. alien introgressions, mutation/deletion protocols, CRISPR technologies, and established GM technologies. Detailed interpretation of gene networks within the polyploid molecular genetic environment of wheat is now a fastmoving area of biological research, as the knowledge base of the rules governing this complex genetic makeup is established. In parallel, basic research has established a new framework for providing society with novel wheat lines uniquely suited to new environments in order to maintain the food supply for an expanding world population.













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Editor-in-Chief

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Message from the Editor-in-Chief

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