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# Wheat Genomics, Genetics and Breeding

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Deadline for manuscript submissions:
**closed (25 May 2023)**

## Message from the Guest Editors

Global food security faces multiple challenges. By 2050, demand for wheat is predicted to increase by 50 percent from today's levels. Meanwhile, the crop is at risk from new and more aggressive pests as well as diseases, diminishing water resources, limited available land, and unstable weather conditions, particularly heat. The unprecedented recent developments in next-generation DNA sequencing technologies and high-density genotyping-based trait mapping, such as QTL discovery, fine mapping, pooled sequencing (QTLseq, BSRseq, MutMap, etc.), genome-wide association studies, and systems genetics tools allow for the discovery of superior haplotypes to enhance the nutritional content of a wide array of crops. Therefore, this Special Issue of Genes is focused on wheat genomics, genetics, and breeding, with the goal of contributing to food and nutrition security; climate adaption and mitigation; and the development of climate-resilient, nutritious, disease- and pest-tolerant, diverse, and high-yielding wheat varieties. We believe that the whole wheat community will find this compilation helpful.

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## Editor-in-Chief

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## Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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