



## Molecular Markers and Marker-Assisted Breeding in Wheat

Guest Editors:

**Prof. Dr. Aimin Zhang**

**Prof. Dr. Dongcheng Liu**

**Prof. Dr. Xianchun Xia**

Deadline for manuscript  
submissions:

**closed (15 December 2022)**

### Message from the Guest Editors

Dear Colleagues,

Wheat, as a dominant cereal crop, is one of the most important staple foods. In 2020/2021, it was grown on about 219 million hectares of land, with around 764 million metric tons of grain being produced worldwide. Globally, 19% of the calorie demand and 20% of the protein demand are fulfilled by wheat production. Thanks to the development of new varieties by advanced breeding technology, especially using molecular markers in breeding, which greatly facilitate the selection process, the yield potential of wheat has increased significantly. The global population is expected to reach 9.8 billion by 2050, and an annual gain of ~2% in grain yield and a ~50% cumulative increase in the next 20 years are necessary to meet the predicted demand. Increasing the yield per unit area, improving the quality, and making crops more resilient to climate change by genetic improvement is the only way to meet this demand. Molecular markers and molecular assisted breeding will become more and more important in wheat genetic improvement to ensure human food security.





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### Prof. Dr. Les Copeland

Sydney Institute of Agriculture,  
School of Life and Environmental  
Sciences, The University of  
Sydney, Sydney, NSW 2006,  
Australia

## Message from the Editor-in-Chief

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Agriculture Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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