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Metabolomics in the Study of Cereal Grains and Their Derived Products

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Message from the Guest Editor

A constantly growing number of scientific reports and new technologies in the field of cereal metabolomics reflect the progress in improving food quality, yield production and, therefore, sustainable agriculture. Determining the metabolome of cereal plants, despite efforts from scientists, is still a challenge. The main limitations are caused by fragmentary knowledge about the role of metabolites in cereals and derivative products, their structural diversity and complexity.

This Special Issue presents a collection of original research and review articles that highlight the latest discoveries and advances in the field of metabolomics of cereal crops, especially grains and products derived from them. The selected articles will strengthen our understanding of molecular processes related to improving cereal plants and health-promoting cereal food. There is potential to facilitate new knowledge for breeders, sustainable agriculture, and food security. It will also be an excellent opportunity to demonstrate modern technologies and research approaches in targeted and untargeted metabolomics in health and agriculture.



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Special Issue



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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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