

Special Issue

Agronomic Strategies for Enhancing the Physical, Chemical, Nutritional and Sensory Properties of Cereal Grains

Message from the Guest Editors

After processing, grains are used for flour, groats, cereals, pastas, and bread, or added to other food and feed products. They essentially affect the health of people and livestock. The aim of contemporary plant breeding and agronomic practices is thus not only to increase grain production but also to enhance their quality (physical, chemical, nutritional and sensory properties). These traits are determined genetically as well as by a host of environmental factors such as growing zone and prevailing climate during crop growth. Agrotechnical factors, mainly fertilization, also play an important role. The application of plant nutrients through natural, organic and chemical fertilizers, particularly of nitrogen, to improve yield and quality is well known. However, there is a demand for the use of other agrotechnical factors in the technology of cereal production, which will lead to the cultivation of plants allowing for obtaining optimal values of the technological characteristics of the raw material (depending on the direction of use) and, consequently, a high quality of the final product.

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