

Special Issue

Modern Biotechnologies and Improvement Breeding for Cereals Crop

Message from the Guest Editors

Cereal crops represent a pivotal source of energy and nutrients for global population, and an ever-escalating expansion of production was recorded in recent decades owing to plant breeding techniques and agricultural management practices. However, feeding the ever-increasing world population ahead of limited arable land as well as ever-changing climate conditions requires efficient breeding strategies to improve cereal crop production, which still represent a major challenge. To achieve this goal, technological advances in functional genomics were adopted to improve the efficiency of genome analysis and breeding programs in addition to phenotypic information. Therefore, this Special Issue aims to highlight new and/or modern biotechnologies useful to improve both cereal production quality and quantity and to address future challenges to food security in a context of sustainable agriculture.

Guest Editors

Dr. Pilar Prieto

Dpto. de Mejora Genética Vegetal, Instituto de Agricultura Sostenible, Agencia Estatal Consejo Superior de Investigaciones Científicas, Avenida Menéndez Pidal s/n. Campus Alameda del Obispo, 14004 Córdoba, Spain

Dr. Antonio Lupini

AGRARIA Department, Mediterranean University of Reggio Calabria, 89122 Località Feo di Vito, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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