

# Topical Collection

## Advances in Plant Breeding

### Message from the Collection Editors

Along with classical breeding objectives and achievements, aimed at satisfying the current requirements of producers and farmers, traders, industry, market, and consumers or users, in this Special Issue we expect contributions about the use and application of innovative modern methodologies in plant breeding for the development of new crop varieties for current and future agriculture. This includes the development of varieties for suboptimal cultivation conditions to achieve sustainable agricultural production and increased food quality and security, but also to supply the raw materials for innovative industrial products and the living needs of mankind. Keywords:

- conventional plant breeding
- objectives and methods of plant breeding
- genetic resources in plant breeding
- abiotic and biotic stress traits
- breeding for quality
- achievements and perspectives in plant breeding
- broadening the genetic base of crops
- conservation and use of genetic resources
- gene background
- hybridization
- polyploidy
- mutations
- inbreeding and heterosis
- biotechnology and molecular tools in plant breeding

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### Collection Editors

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Prof. Dr. Mariola Plazas

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## Plants

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## About the Journal

### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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### Editor-in-Chief

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#### Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)