

Special Issue

Genetics and Cell Biology in Crop Improvement

Message from the Guest Editors

This Special Issue emphasizes the integration of advanced genetic and cellular biology tools to drive crop improvement. Techniques such as synthetic biology, gene editing, metabolic engineering, and molecular breeding are instrumental in developing plant varieties with superior traits, including higher yields, enhanced resistance to diseases, improved nutritional content, and greater tolerance to environmental stresses. A deeper exploration of the genetic and cellular mechanisms underlying plant growth and development is essential for achieving these goals.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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