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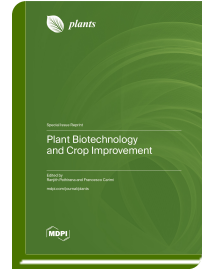


*Special Issue Reprint*

## Plant Biotechnology and Crop Improvement

[www.mdpi.com/books/reprint/9403](http://www.mdpi.com/books/reprint/9403)

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ISBN 978-3-7258-1307-0 (Hardback)  
ISBN 978-3-7258-1308-7 (PDF)

“Plant Biotechnology and Crop Improvement” compiles research and reviews from a *Plants* Special Issue, showcasing diverse studies on plant biotechnology's latest breakthroughs. To tackle global challenges like climate change and food security, biotechnology supplements traditional breeding. As the need for sustainable, resilient crop varieties becomes increasingly urgent, this reprint showcases the transformative potential of biotechnological interventions in enhancing crop productivity, nutritional quality, and sustainability. Exploring mutagenesis, genomics, gene editing, metabolomics, and synthetic biology revolutionizes agriculture. Crops from various continents, enhancing nutrition in staple crops, such as wheat, cassava, sweet potato, and beans can be discovered or lesser-known species like African tef or prickly pear can be explored. Ethical, socio-economic, and environmental impacts are discussed, offering a balanced view of genetic modification. This reprint is highly recommended for researchers, students, policymakers, and industry professionals as it provides insights into the forefront of plant biotechnology, guiding towards a more sustainable agricultural future.



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