

CRISPR for Climate-Smart and Sustainable Agriculture

CRISPR for Climate-Smart and Sustainable Agriculture summarizes the current genome editing technology being used in food and energy crops. It presents methods and applications of CRISPR tools for breeding climate-smart and stress-tolerant crops that are better able to resist biotic and abiotic stressors due to climate change. Gene editing tools are increasingly seen as options for improving plant health and productivity. CRISPR is one such emerging and quickly advancing crucial technology for the research field of plant physiology, plant molecular biology, and crop breeding. CRISPR for Climate-Smart and Sustainable Agriculture focuses on genetic engineering using CRISPR technology for precision breeding of crops to achieve climate resilience, stress tolerance, and higher yield. Organized by specific plant challenges, this book presents expert insights from around the globe, providing updated knowledge of CRISPR with an emphasis on facing climate change and supporting sustainable agriculture. This volume in the Genome Modified Plants and Microbes in Food and Agriculture series will be valuable for researchers, academics, and advanced-level students seeking to understand and advance the use of CRISPR technologies toward the UN Sustainable Development Goals and the Paris Climate Agreement.



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