Sample Abstract

Botanical Approaches for Improving Crop Resilience under Climate Change

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Abstract

Climate change is increasingly threatening agricultural productivity and global food security by intensifying abiotic stresses such as heat and drought. This study investigates botanical approaches aimed at enhancing crop resilience under changing climatic conditions. Physiological and biochemical traits of selected crop species were evaluated under controlled stress environments. Results showed significant improvements in antioxidant enzyme activity, Osmo protectant accumulation, and water-use efficiency in stress-tolerant genotypes. These adaptive responses contributed to improved growth and yield stability under adverse conditions. The findings underscore the importance of integrating traditional botanical knowledge with modern plant science strategies to develop climate-resilient crops and ensure sustainable food production.

Keywords: Climate change, Crop resilience, Plant physiology, Food security, Abiotic stress

Presentation Preference: Oral Presentation

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