

The Evolutions and Prospect of Cotton Genetics and Breeding in China

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Abstract: Based on the analysis on the current status of cotton breeding both domestic and overseas, and on the five main development trends which include the diversification of lint quality types, the continuous increasing of breeding goal in resistance to biotic and abiotic

stresses, the recognition of the differences in quality distribution among different ecological areas, the expansion of the utilization of hybrid heterosis and the further research on multiple utility cultivars, and from the perspective of cultivars improvement and exchange, the authors elucidated the seven important stages of cotton breeding and the three current hot issues in China. The authors also suggested new concepts and countermeasures for the future development of cotton breeding domestically.

Key words: upland cotton; genetics; breeding; future prospect