Exploring the Potential of Anther Culture for Generating Haploid Plants in Agricultural Biotechnology

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Keywords:

Introduction

Results and Discussion

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techniques and advancements in anther culture, emphasizing its potential in producing homozygous lines rapidly and e f ciently. We discuss the critical factors in fuencing successful anther culture, including the choice of donor plants, culture media composition, and environmental conditions. Recent developments in protocols and technologies, such as the use of growth regulators and optimized culture environments, have signi fcantly improved the e f ciency of haploid induction. Case studies highlight successful applications of anther culture in key crops, demonstrating its impact on trait improvement and disease resistance. By harnessing the potential of anther culture, researchers

Conclusion