

Name: Shoupu He

Affiliation: State Key Laboratory of Cotton Bio-breeding and Integrated Utilization,
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Research Interests: Identification of causal genetic variations and genes controlling
agronomically important traits, and deciphering their regulatory mechanisms.

Biography:

Dr. He leads the Cotton Germplasm Research Group at ICR, CAAS. His research focuses on leveraging genomic and population genetic approaches to explore the genetic diversity of cultivated cotton germplasm and identify agriculturally critical genes. Over the past decade, Dr. He and his team have uncovered population divergence patterns and pinpointed key genes governing agronomic traits through large-scale genome-wide association studies (GWAS) in *G. arboreum* (*Nature Genetics*, 2018a), *G. hirsutum* (*Nature Genetics*, 2018b, 2021), and *G. barbadense* (*The Plant Journal*, 2022). His work further resolves causal genetic variations and regulatory mechanisms underlying traits such as plant architecture (*New Phytologist*, 2022; *Molecular Plant*, 2024), and fiber development (*Plant Biotechnology Journal*, 2022; *The Plant Journal*, 2024). Dr. He is honored to serve as co-chair of the Germplasm and Genetic Stocks Workgroup. He is committed to advancing the mission of the ICGI and fostering collaboration among its members.