

## Xueying Guan

Guan Xueying is a professor at the College of Agriculture and Biotechnology, Zhejiang University (2019- present), and serves as the Director of the Advanced Seed Institute of Zhejiang University (2022- present). She graduated from the PhD program of Shanghai Institute of Plant Physiology and Ecology, CAS. After postdoc training in University of Texas at Austin (2008-2014), she became a professor in Nanjing Agricultural University, China (2014-2019). Focusing on the polyploid crop cotton and aiming to increase cotton yield, she investigates the key scientific issues related to the molecular regulation of cotton fiber differentiation and development. Applied with research technologies from genetics, epigenetics, genomics, single-cell/spatial transcriptomics, and phenomics, she aims to elucidate the regulatory mechanisms of cotton fiber differentiation and development, and to develop regulatory networks for enhancing cotton yield. Her research also explores the molecular mechanisms by which epigenetic variations in the *Gossypium* genus in balance the cotton yield and abiotic stress tolerance.

She has published over sixty SCI papers in journals such as *Nature Biotechnology*, *Nature Communications*, *Genome Biology*, *PNAS*, *Cell Reports*, *Advanced Sciences* and so on. She has led eleven national and provincial-level projects, including those funded by the National Natural Science Foundation and the National Key Research and Development Program. She received the First Prize for Natural Science from the Ministry of Education (ranked 5/6) and has served as the Chair of the Functional Genomics Committee of the International Cotton Genome Initiative (2019-2023), a member of the Cotton Branch of the Chinese Society of Agronomy (from August 2022 to present), and the Executive Editor of *Crop Design*, as well as an editor for the *Journal of Cotton Research*.