

## ICGI Functional Genomics

### **Libo Shan**

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As a plant molecular biologist, I am particularly interested in studying the mechanisms underlying plant disease resistance while also managing growth and development. My primary objective is to apply the knowledge gained from studying model plants to improve disease resistance of cotton, a critical source of fiber, feed, and oil products. Through our work, we have developed a range of functional genomic, cellular, and biochemical platforms in cotton to better understand the disease resistance mechanisms and identify new components to improve cotton agriculture. Our system and approach have generated excitement and will continue to lead cotton functional genomics and molecular biology in the post-genome era. ICGI is a superb platform for connecting cotton researchers worldwide and leveraging intellectual resources for cotton research. I am thrilled to get nominated to serve the cotton research community, and particularly to contribute to the Cotton Functional Genomics section. I am committed to share my expertise and knowledge with the community, promoting community development through organizing and hosting workshops, providing training opportunities, encouraging free exchange of resources and tools, leading large international consortia grant application, organizing specific issue on cotton functional genomic research in creditable journals, and increasing the visibility of cotton research.