博导名录

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高健，女，汉族，1966年9月生，二级研究员。国家林业和草原局“百千万人才工程”人选、创新团队负责人，全国生态建设突出贡献先进集体负责人、国家林业局巾帼建功先进个人。2000年中国林业科学研究院林业研究所森林培育专业毕业，获博士学位。2002年赴德国哥廷根大学森林植物研究所做博士后，从事杨树耐盐机理和转基因杨树的耐盐性研究。2006年以来先后多次赴德国、美国、澳大利亚、加拿大、韩国、缅甸、比利时和新加坡等国进行访问和交流。曾任安徽农业大学森林利用学院林学系副主任、主任，国际竹藤中心安徽太平试验中心副主任，现任国际竹藤中心竹藤资源基因科学研究所首席专家。

主要研究领域为竹子生长发育的分子机制，竹子抗逆分子生理和竹子育种。先后承担国家级和省部级科研项目20余项，获省部级奖励10余项、授权国家发明专利12件、国家级新品种8个，审（认）定良种 6 个，制订并颁布实施林业行业标准 3 项，鉴（认）定科技成果 12 项。

近年主持的项目（课题）如下：

1. 主持“十四五”国家重点研发计划项目课题“竹藤生物育种与种质创新”

2. 主持“十三五”国家重点研发计划项目“竹资源高效培育关键技术研究”

3. 主持国家自然科学基金项目“WOX4调控毛竹茎顶端分生组织细胞发育的分子机理”

发表论文150余篇，其中SCI论文60余篇，主编和参编著作8部，担任 10余个本领域国际知名期刊（SCI）和国内期刊审稿人。 近年来发表的主要论文如下：

1. Cheng, Z., Mu, C., Li, X., Cheng, W., Cai, M., Wu, C., & Gao, J*. Single-cell transcriptome atlas reveals spatiotemporal developmental trajectories in the basal roots of Moso bamboo (Phyllostachys edulis). Horticulture Research. 2023,10(8), uhad122

2. Xi,F., hangZ.,Wu,L.,Wang,B.,Gao,P.,Gao,J*., Gu,L*., Zhang,H*. Insight into gene expression associated with DNA methylation and small RNA in the rhizome-root system of Moso bamboo. International Journal of Biological Macromolecules. 2023, 248(1),125921

3. Bai, Y., Dou, Y., Xie, Y., Zheng, H., & Gao, J*. Phylogeny, transcriptional profile, and auxin-induced phosphorylation modification characteristics of conserved PIN proteins in Moso bamboo (Phyllostachys edulis). International Journal of Biological Macromolecules. 2023, 234, 123671

4. Bai, Y., Cai, M., Mu, C., Zheng, H., Cheng, Z., Xie, Y., & Gao, J*. Integrative analysis of exogenous auxin mediated plant height regulation in Moso bamboo (Phyllostachys edulis). Industrial Crops and Products. 2023, 200, 116852

5. Bai, Y., Cai, M., Dou, Y., Xie, Y., Zheng, H., & Gao, J*. Phytohormone Crosstalk of Cytokinin Biosynthesis and Signaling Family Genes in Moso Bamboo (Phyllostachys edulis). International Journal of Molecular Sciences. 2023, 24(13), 10863

6. Bai, Y., Xie, Y., Cai, M., Jiang, J., Wu, C., Zheng, H., & Gao, J*. GA2Ox Family Genes Mediate Gibberellin and Auxin Crosstalk in Moso bamboo (Phyllostachys edulis). Plants. 2023,12(15), 2842

7. Bai, Y., Cai, M., Mu, C., Cheng, W., Zheng, H., Cheng, Z., & Gao, J*. New insights into the local auxin biosynthesis and its effects on the rapid growth of Moso bamboo (Phyllostachys edulis). Frontiers in Plant Science. 2022, 13, 858686

8. Zheng, H., Bai, Y., Gao, J*. Photosynthesis, Phytohormone Signaling and Sugar Catabolism in the Culm Sheaths of Phyllostachys edulis. Plants. 2022, 11(21), 2866

9. Wu, C., Bai, Y., Cao, Z., Xu, J., Xie, Y., Zheng, H., & Gao, J*. Plasticity in the Morphology of Growing Bamboo: A Bayesian Analysis of Exogenous Treatment Effects on Plant Height, Internode Length, and Internode Numbers. Plants. 2022,12(8), 1713

10. Zheng, H., Cai, M., Bai, Y., Xu, J., Xie, Y., Song, H., & Gao, J*. The effect of guttation on the growth of bamboo shoots. Forests. 2021, 13(1), 31

11. Li, L., Shi, Q., Jia, Y., Deng, P., & Gao, J*. Transcriptome and anatomical comparisons reveal the specific characteristics and genes involved in distinct types of growing culms. Industrial Crops and Products. 2021,171, 113865

12. Cheng ZC, Hou D, Ge W, Li XY, Xie L, Zheng HF, Cai MM, Liu J, Gao J.* Integrated mRNA, MicroRNA Transcriptome and Degradome Analyses Provide Insights into Stamen Development in Moso Bamboo. Plant Cell Physiology. 2020, 61(1)

13. Hou, D., Cheng, Z., Xie, L., Li, X., Li, J., Mu, S., & Gao, J*. The R2R3MYB gene family in Phyllostachys edulis: genome-wide analysis and identification of stress or development-related R2R3MYBs. Frontiers in Plant Science. 2018, 9, 738

14. Li Long, Cheng Zhanchao, Ma Yanjun, Gao J*. The Association of Hormone Signaling Genes, Transcription, and Changes in Shoot Anatomy during Moso Bamboo Growth. Plant Biotechnology Journal, 2018. 16(1)

15. Ge Wei, Zhang Ying, Cheng Zhanchao, Hou Dan, Li Xueping, Gao J*. Main regulatory pathways, key genes, and microRNAs involved in flower formation and development of moso bamboo (Phyllostachys edulis). Plant Biotechnology Journal, 2017,15(1)

论著：

[1] Gao Jian.Moso Bamboo Genome. Switzerland: Springer Nature,2021

上一篇：高志民[03-21]

下一篇：覃道春[03-21]