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研究方向：草坪生理生态

讲授课程：本科课程《草坪科学研究方法》、《高尔夫概论》、研究生课程《草坪学研究方法与实验技术》、《草坪与地被植物资源与利用》、《草类植物逆境生理学》

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学习经历

2010.10-2012.04，美国 Rutgers 大学，植物生物与病理系，联合培养博士

2009.09-2012.07，北京林业大学，生态环境工程专业，农学博士

工作经历

2015.01-至今，南京农业大学草业学院，副教授

2012.08-2014.12，南京农业大学草业学院，讲师

科研项目

1. 国家自然科学基金面上项目，激素介导的 CO₂ 与氮互作调控高羊茅叶片生长的生理机制，2020.01-2023.12，58 万，在研，主持。

2. 企业委托项目，海雀稗足球场草坪建植及养护技术示范，2017.11-2020.12，30万，在研，主持。
3. 南京农业大学中央高校基本科研业务费自主创新重点项目，KYZZ01673，高浓度 CO₂ 调控高羊茅根系发育的分子机制，2016.01-2018.12，10万，在研，主持。
4. 国家自然科学基金青年基金，31301799，草坪草应对高温胁迫与 CO₂ 浓度增倍的互作效应响应机制，2014.01-2016.12，26万元，结题，主持。
5. 南京农业大学青年科技创新基金，KJ2013021，草坪草应对温度升高与 CO₂ 浓度增倍的分子调控机制，2013.07-2015.06，5万，结题，主持。
6. 国家自然科学基金面上项目，31572153，高羊茅地下茎形成及其抗旱和旱后恢复的分子机制，2016.01-2019.12，60万，在研，参加。
7. 农业部“948”项目，2014-Z25，特异抗逆优质草种质资源的引进与利用，2014.01-2016.6，70万，结题，参加。
8. 科技部项目，南方草地牧草资源调查子课题，2017.01-2021.12，80万，在研，参加。
9. 企业委托项目，抗旱草坪草种质资源筛选和运动场草坪技术集成与示范，2015.03-2016.12，70万，结题，参加。
10. 教改项目（院级），基于“校地合作”的草业科学本科生实践基地建设研究，2018.10-2019.12，在研，主持。
11. 教改项目（校级重点项目），基于“校地合作”的专业学位研究生实践基地建设研究-以南京农业大学句容草坪研究院运动草坪示范基地为例，2018.11-2019.12，在研，主持。

学术论文(按年排序)

1. **Yu, J.**, Fan, N., Li, R., Zhuang, L., Xu, Q.*, Huang, B.*, 2019. Proteomic Profiling for Metabolic Pathways Involved in Interactive Effects of Elevated Carbon Dioxide and Nitrogen on Leaf Growth in a Perennial Grass Species. *Journal of Proteome Research*. 18, 2446-2457.
2. Zhuang, L., Yang, Z., Fan, N., **Yu, J.***, Huang, B.*, 2019. Metabolomic Changes associated with Elevated CO₂-Regulation of Salt Tolerance in Kentucky Bluegrass.

- Environmental & Experimental Botany.165, 129-138.
3. Zhuang, L., Ge, Y., Wang, J., **Yu, J.**, Yang, Z., Huang, B., 2019. Gibberellic Acid Inhibition of Tillering in Tall Fescue Involving Crosstalks with Cytokinins and Transcriptional Regulation of Genes Controlling Axillary Bud Outgrowth. *Plant Science*, 110168.
 4. Zheng, Y., Li, F., Hao, L., **Yu, J.**, Guo, L., Zhou, H., Ma, C., Zhang, X., Xu, M., 2019. Elevated CO₂ Concentration Induces Photosynthetic Down-Regulation with Changes in Leaf Structure, Non-Structural Carbohydrate and Nitrogen Content of Soybean. *BMC Plant Biology*, 255.
 5. Xu, Q., Fan, N., Zhuang, L., **Yu, J.***, Huang, B.*, 2018. Enhanced Stolon Growth and Metabolic Adjustment in Creeping Bentgrass with Elevated CO₂ Concentration. *Environmental & Experimental Botany*. 155, 87-97.
 6. **Yu, J.**, Li, R., Fan, N., Yang, Z., Huang, B., 2017. Metabolic Pathways Involved in Carbon Dioxide Enhanced Heat Tolerance in Bermudagrass. *Frontiers in Plant Science*. 8, 1506.
 7. **于景金**, 范宁丽, 李冉, 杨志民, 2017. 高浓度 CO₂ 对热胁迫条件下高羊茅生长和抗氧化系统的影响. *草业学报*. 26, 113-122.
 8. Li, Z., **Yu, J.** (co-first author), Peng, Y., Huang, B., 2017. Metabolic Pathways Regulated by Abscisic Acid, Salicylic Acid, And γ -Aminobutyric Acid in Association with Improved Drought Tolerance in Creeping Bentgrass (*Agrostis stolonifera*). *Physiologia Plantarum*. 159, 42-58.
 9. Jespersen, D., **Yu, J.**, Huang, B., 2017. Metabolic Effects of Acibenzolar-S-Methyl for Improving Heat or Drought Stress in Creeping Bentgrass. *Frontiers in Plant Science*. 8, 1224.
 10. **Yu, J.**, Liu, M.X., Yang, Z.M., Huang, B., 2015. Growth And Physiological Factors Involved in Interspecific Variations in Drought Tolerance and Postdrought Recovery in Warm- and Cool-Season Turfgrass Species. *Journal of the American Society for Horticultural Science*. 140, 459-465.
 11. **Yu, J.**, Sun, L., Fan, N., Yang, Z., Huang, B., 2015. Physiological

- Factors Involved in Positive Effects of Elevated Carbon Dioxide Concentration on Bermudagrass Tolerance to Salinity Stress. *Environmental and Experimental Botany*. 115, 20-27.
12. Jespersen, D., **Yu, J.** (co-first author), Huang, B., 2015. Metabolite Responses to Exogenous Application of Nitrogen, Cytokinin, and Ethylene Inhibitors in Relation to Heat-Induced Senescence in Creeping Bentgrass. *Plos One*. 10, e123744.
 13. Chen, Y.J., **Yu, J.J.** (co-first author), Huang, B.R., 2015. Effects of Elevated CO₂ Concentration on Water Relations and Photosynthetic Responses to Drought Stress and Recovery during Rewatering in Tall Fescue. *Journal of the American Society for Horticultural Science*. 140, 1-8.
 14. **Yu, J.J.**, Yang, Z.M., Jespersen, D., Huang, B.R., 2014. Photosynthesis and Protein Metabolism Associated with Elevated CO₂-mitigation of Heat Stress Damages in Tall Fescue. *Environmental and Experimental Botany*. 99, 75-85.
 15. Song, Y.L., **Yu, J.J.** (co-first author), Huang, B., 2014. Elevated CO₂-Mitigation of High Temperature Stress Associated with Maintenance of Positive Carbon Balance and Carbohydrate Accumulation in Kentucky Bluegrass. *Plos One*. 9, e89725.
 16. Li, Z., **Yu, J.** (co-first author), Peng, Y., Huang, B., 2016. Metabolic Pathways Regulated by γ -aminobutyric acid (GABA) Contributing to Heat Tolerance in Creeping Bentgrass (*Agrostis stolonifera*). *Scientific Reports*. 6, 30338.
 17. Yang, Z.M., Miao, Y.C., **Yu, J.J.**, Liu, J., Huang, B.R., 2014. Differential growth and physiological responses to heat stress between two annual and two perennial cool-season turfgrasses. *Scientia Horticulturae*. 170, 75-81.
 18. Yang, Z.M., Chang, Z.L., Sun, L.H., **Yu, J.J.**, Huang, B.R., 2014. Physiological and metabolic effects of 5-aminolevulinic acid for mitigating salinity stress in creeping bentgrass. *Plos One*. 9, e116283.
 19. Yang, Z.M., Xu, L.X., **Yu, J.J.**, DaCosta, M., Huang, B.R., 2013. Changes in Carbohydrate Metabolism in Two Kentucky

- Bluegrass Cultivars during Drought Stress and Recovery. *Journal of the American Society for Horticultural Science*. 138, 24-30.
20. Xu, L.X., **Yu, J.J.**, Han, L.B., Huang, B.R., 2013. Photosynthetic Enzyme Activities and Gene Expression Associated with Drought Tolerance and Post-Drought Recovery in Kentucky bluegrass. *Environmental and Experimental Botany*. 89, 28-35.
 21. Liu, J.N., Yang, Z.M., Li, W.L., **Yu, J.J.**, Huang, B.R., 2013. Improving Cold Tolerance through In Vitro Selection for Somaclonal Variations in Seashore Paspalum. *Journal of the American Society for Horticultural Science*. 138, 452-460.
 22. **Yu, J.J.**, Chen, L.H., Xu, M., Huang, B.R., 2012. Effects of Elevated CO₂ on Physiological Responses of Tall Fescue to Elevated Temperature, Drought Stress, and the Combined Stresses. *Crop Science*. 52, 1848-1858.
 23. **Yu, J.J.**, Du, H.M., Xu, M., Huang, B.R., 2012. Metabolic Responses to Heat Stress under Elevated Atmospheric CO₂ Concentration in a Cool-season Grass Species. *Journal of the American Society for Horticultural Science*. 137, 221-228.
 24. Yang, Z.M., **Yu, J.J.**, Merewitz, E., Huang, B.R., 2012. Differential Effects of Abscisic Acid and Glycine Betaine on Physiological Responses to Drought and Salinity Stress for Two Perennial Grass Species. *Journal of the American Society for Horticultural Science*. 137, 96-106.