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王将

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一、基本信息

姓名: 王将  
性别: 男  
出生年月: 1989.7  
民族: 汉  
职称: 副研究员  
主要研究方向: 植物糖代谢  
硕士研究生招生方向: 作物学, 作物遗传育种

二、联系方式

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三、教育经历

2012-2017 University of Western Ontario, 生物系, 博士  
2007-2011 西北农林科技大学, 资源环境科学, 学士

四、学术工作经历

2023-至今 海南大学, 热带作物学院, 副研究员  
2018-2023 University of Illinois at Urbana-Champaign, Institute for Genomic Biology, 博士后  
2017-2018 Agriculture and Agri-Food Canada, London Research and Development Centre, 博士后

五、研究兴趣

糖作为植物光合作用的产物, 是植物生长发育过程中不可或缺的营养成分, 给生命活动提供了丰富的能量和碳骨架。糖在植物的光合源器官中合成, 并通过韧皮组织向各库器官进行分配, 以维持和促进库器官的正常生长和发育。因此, 研究糖的源库转运、分配和代谢机制有重要的意义。王将副研究员主要以产胶替代作物、产胶模式植物-橡胶草为研究对象, 采用遗传学、代谢工程、基因工程等手段, “push”糖在源端的装载, “pull”更多的糖至库器官-产胶乳管, “protect”乳管中糖向天然橡胶的代谢通路, 从而达到研究培育高产橡胶草种质资源的目标。

六、学术服务

Plant Biotechnology Journal, Frontiers in Plant Science, BMC Plant Biology, Plant Reproduction  
审稿人。

七、发表论文

1. Wang J<sup>1</sup>, Xue X<sup>1</sup>, Zeng H, Li J, Chen LQ (2022). Sucrose rather than GA transported by AtSWEET13 and AtSWEET14 supports pollen fitness at late anther development stages. *New Phytologist* 236: 525–537 (1 equal contribution; IF 10.768)
2. Wang J, Yu YC, Li Y, Chen LQ (2022). Hexose transporter SWEET5 confers galactose sensitivity to Arabidopsis pollen germination via a galactokinase. *Plant Physiology* 189, 388–401 (IF 9.115)
3. Xue X<sup>1</sup>, Wang J<sup>1</sup>, Shukla D, Cheung LS, Chen LQ (2022). When SWEETs turn tweens: updates and perspectives. *Annual Review of Plant Biology* 73:1, 379–403 (1 equal contribution; IF 29.919)
4. Wang J<sup>1</sup>, Kambhampati S<sup>1</sup>, Allen DK, Chen LQ (2022). Comparative metabolic analysis reveals a metabolic switch in mature, hydrated, and germinated pollen in *Arabidopsis thaliana*. *Frontiers in plant science*. 13 (1 equal contribution; IF 7.255)
5. Mou, Q, Xue X, Ma Y, Banik M, Garcia V, Guo W, Wang J, Song T, Chen LQ, Lu Y (2022). Efficient delivery of a DNA aptamer-based biosensor into plant cells for glucose sensing through thiol-mediated uptake. *Science Advances* 8, 26 (IF 16.895)
6. Wang J, Li Y, Wai CM, Beuchat G, Chen LQ (2021). Identification and analysis of stem-specific promoters from sugarcane and energy cane for oil accumulation in their stems. *Global Change Biology Bioenergy* 13, 1515–1527. (IF 6.293)
7. Li Y<sup>1</sup>, Liu H<sup>1</sup>, Yao X, Wang J, Feng S, Sun L, Ma S, Xu K, Chen LQ, Sui X (2021). Hexose transporter CsSWEET7a in cucumber mediates phloem unloading in companion cells for fruit development. *Plant Physiology* 186, 640–654. (IF 9.115)
8. Zhang C<sup>1</sup>, Li Y<sup>1</sup>, Wang, J<sup>1</sup>, Xue X, Beuchat G, and Chen LQ (2021). Two evolutionarily duplicated domains individually and post-transcriptionally control SWEET expression for phloem transport. *New Phytologist* 232, 1793–1807. (1 equal contribution; IF 10.768)
9. Wang J, Li Y, Zhu F, Ming R, Chen LQ (2019). Genome-wide analysis of nitrate transporter (NRT/NPF) family in sugarcane *saccharum spontaneum* L. *Tropical Plant Biology* 12, 133–149. (IF 1.61)
10. Wang J, Hüner NPA, Tian L. (2019). Identification and molecular characterization of the *Brachypodium distachyon* NRT2 family, with a major role of BdNRT2.1. *Physiologia Plantarum* 165, 498–510. (IF 5.12)

