

个人信息

姓名: 王进征 国籍: 中国 出生年月: 1981-9

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教育背景

2008-2011	植物学博士学位, 首都师范大学, 北京
2005-2008	植物学硕士学位, 首都师范大学, 北京
2000-2004	生物学本科学位, 青岛农业大学, 山东

科研经历

2019-至今	项目科学家, 整合基因组生物学院, 加州大学河滨分校
2016-2019	博士后, 整合基因组生物学院, 加州大学河滨分校
2013-2016	博士后, 植物系, 加州大学戴维斯分校

研究领域

研究工作聚焦在逆境条件下细胞器之间的信号交流和互作。主要研究叶绿体与其他细胞器之间的互作方式, 鉴定介导叶绿体与其他细胞器互作的小分子及其调节机制, 进一步揭示细胞器互作在细胞稳态调控以及个体胁迫响应中的作用机制。

发表文章

Wang JZ, Lei YX, Xiao Y, He X, Liang J, Jiang J, Dong S, Ke H, Leon P, Zerbe P, Xiao Y, Dehesh K (2019) Uncovering the functional residues of Arabidopsis isoprenoid biosynthesis enzyme HDS. **Proceedings of the National Academy of Sciences** (accepted).

Wang JZ, Li B, Xiao Y, Ni Y, Ke H, Yang P, de Souza A, Bjornson M, He X, Shen Z, Balcke GU, Briggs SP, Tissier A, Kliebenstein DJ, Dehesh K (2017) Initiation of ER Body Formation and Indole Glucosinolate Metabolism by the Plastidial Retrograde Signaling Metabolite, MEcPP. **Molecular Plant**.

Walley J, Xiao Y, **Wang JZ***, Baidoo EE, Keasling JD, Shen Z, Briggs SP, Dehesh K (2015) Plastid-produced interorganelle stress signal MEcPP potentiates induction of the unfolded protein response in endoplasmic reticulum. **Proceedings of the National Academy of Sciences** **112**: 6212-6217. * Co-first author

Wang JZ, Dehesh K (2018) ER; the Silk Road of Interorganellar Communication. **Current Opinion in Plant Biology**

de Souza A, **Wang JZ***, Dehesh K (2017) Retrograde signals: integrator of interorganellar communication and orchestrators of plant development. **Annual Review of Plant Biology** 68: 85-108. * Co-first author

Jiang J, Rodriguez-Furlan C, **Wang JZ**, de Souza A, Ke H, Pasternak T, Lasok H, Ditegou FA, Palme K, Dehesh K (2018) Interplay of the two ancient metabolites, auxin and MEcPP, regulates adaptive growth. **Nature Communication** 9(1):2262.

Bjornson M, Balcke GU, Xiao Y, de Souza A, **Wang JZ**, Zhabinskaya D, Tagkopoulos I, Tissier A, Dehesh K (2017) Integrated omics analyses of retrograde signaling mutant delineate interrelated stress-response strata. **Plant Journal** 91: 70-84

Wang J, Wang Y, Lv Q, Wang L, Du J, Bao F, He YK (2017) Nitric oxide modifies root growth by S-nitrosylation of plastidial glyceraldehyde-3-phosphate dehydrogenase. **Biochem Biophys Res Commun** 488: 88-94.

Lv Q, Wang L, **Wang JZ**, Li P, Chen YL, Du J, He YK, Bao F (2017) SHB1/HY1 Alleviates Excess Boron Stress by Increasing BOR4 Expression Level and Maintaining Boron Homeostasis in Arabidopsis Roots. **Front Plant Sci** 8: 790

Wang L, Kong DD, Lv Q, Niu GQ, Han TT, Zhao XC, Meng SL, Cheng Q, Guo SC, Du J, Wu ZL, **Wang JZ**, Bao F, Hu Y, Pan XJ, Xia JC, Yuan D, Han LD, Lian T, Zhang CY, Wang HY, He XJ, He YK (2017) Tetrahydrofolate Modulates Floral Transition through Epigenetic Silencing. **Plant Physiology** 174: 1274-1284

Lemos M, Xiao Y, Bjornson M, **Wang JZ**, Hicks D, Souza A, Wang CQ, Yang P, Ma S, Dinesh-Kumar S, Dehesh K (2016) The plastidial retrograde signal methyl erythritol cyclopyrophosphate is a regulator of salicylic acid and jasmonic acid crosstalk. **J Exp Bot** 67: 1557-1566

Xiao Y, **Wang J***, Dehesh K. (2013) Review of stress specific organelles-to-nucleus metabolic signal molecules in plants. **Plant Science** 212, 102-107. * Co-first author

Du J, Li M, Kong D, Wang L, Lv Q, **Wang J**, Bao F, Gong Q, Xia J and He Y. (2013) Nitric oxide induces cotyledon senescence involving co-operation of the NES1/MAD1 and EIN2-associated ORE1 signalling pathways in *Arabidopsis*. **Journal of Experimental Botany**, doi: 10.1093/jxb/ert429.

Liu W, Kong D, Gu X, Gao H, **Wang J**, Xia M, Gao Q, Tian L, Xu Z, Bao F, Hu R, Ye N, P ZM, He Y. (2013) Cytokinins can act as suppressors of nitric oxide in *Arabidopsis*. **Proceedings of the National Academy of Sciences** 110, 1548-1553.

Bai S, Li M, Yao T, Wang H, Zhang Y, Xiao L, **Wang J**, Zhang Z, Hu Y, Liu W, He Y. (2012) Nitric oxide restrain root growth by DNA damage induced cell cycle arrest in *Arabidopsis thaliana*. **Nitric oxide** 26: 54-60.

获奖情况

2019 美国植物生物学家学会会议资助奖

科学会议报告

2017 15th Annual CEPCEB Symposium. UCR-20171208
2017 Gordon Research Conference, Plant lipids: Structure, Metabolism & Function
2016 UC Riverside Postdoc. Symposium
2015 UC Davis Postdoc. Symposium

科学会议海报

2019 American Society of Plant Biology (ASPB)
2018 Cell Symposium: Multifaceted Mitochondria
2017 Gordon Research Conference, Plant lipids: Structure, Metabolism & Function

学术兼职

担任 Nature Plants, Cell Reports, Plant Physiology, Nitric Oxide 等杂志审稿人。

学生和学者指导与合作

Graduates/visiting graduates/scholars

Panyu Yang: 2015-2016

Jiubo Liang: 2018-2019

Undergraduates

Wesley Yu: 2015-2016

Dima Younes: 2018- , UC Riverside undergraduate, NSF-funded Research Experiences for Undergraduates (REU) Program Recipient (2019).

Brian Zhan: 2019-

Megan Hsu: 2019- , UC Riverside undergraduate, Research in Science and Engineering (RISE) Summer program Recipient (2019).

Tyler Inskip: 2019-, UCR Riverside undergraduate.

About 160 first year UCR undergraduates: The Dynamic Genome Program (2019).