徐清山

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1、基本信息

徐清山，博士，副教授，硕士生导师。2009—2015年就读于青岛农业大学，获农学学士、硕士学位；2018年毕业于安徽农业大学茶树生物学与资源利用国家重点实验室茶学专业，获农学博士学位。2018年7月到西北农林科技大学园艺学院任教。

2、研究方向

1）茶树香气成分代谢调控与种质创新

2）茶树不定根的生长发育及其环境应答的分子机理

3）茶及饮用植物资源深加工

3、开设课程

承担本科生"茶树分子生物学"、"文献阅读与科技论文写作"、"园艺科研技能训练"、"科技市场调查实习"、"毕业综合实习"，研究生"高级茶叶生物化学"、"茶树育种与栽培"等课程。

4、主持科研项目

1）国家自然科学基金青年项目，NO. 31902072，2020.01-2022.12

2）中国博士后科学基金第67批面上项目，NO. 2020M673511，2020.07-2022.06

3) 陕西省引进国内博士专项资助，2021.03-2023.03

4) 陕西省农业专项，茯茶风味物质新型检测方法开发，2020.04-2022.04

5）陕西省自然科学基础研究计划项目，NO. 2019JQ-319，2019.01-2020.12

6）西北农林科技大学试验示范站（基地）科技创新与成果转化项目，NO.TGZX2019-11，2019.06-2021.06

7）西北农林科技大学博士科研启动基金项目，NO. 2452018068，2018.07-2021.06

5、主要学术论著

1) Zhu Junyan., Yan Xiaomei., Liu Shengrui., Xia Xiaobo., An Yanlin., Xu Qingshan., Zhao Shiqi., Liu Lu., Guo Rui., Zhang Zhaoliang., Xie De-Yu., Wei Chaoling.(2022). Alternative splicing of CsJAZ1 negatively regulates flavan-3-ol biosynthesis in tea plants. Plant Journal , 110(1), 243-261. doi:10.1111/tpj.15670.

2) Cheng Long, Liu Huan, Zhao Jing, Dong Yuan, Xu Qingshan*, Yu Youben*. (2021). Hormone Orchestrates a Hierarchical Transcriptional Cascade That Regulates Al-Induced De Novo Root Regeneration in Tea Nodal Cutting. J Agric Food Chem, 69(21), 5858-5870. doi:10.1021/acs.jafc.1c01100

3) Zhu Junyan†, Xu Qingshan†, Zhao Shiqi†, Xiaobo Xia, Xiaomei Yan, Yanlin An, Xiaozeng Mi, Lingxiao Guo, Lidiia Samarina, Chaoling Wei*.Comprehensive co-expression analysis provides novel insights into temporal variation of flavonoids in fresh leaves of the tea plant (Camellia sinensis) [J], Plant Sci ., 2020, 290: 110306.

4) Zhang Shuning, Sun Litao, Wang Yu, Fan Kai, Xu Qingshan, Li Yusheng, Ma Qingping, Wang Jiguo, Ren Wanming, Ding Zhaotang*. Cow manure application effectively regulates the soil bacterial community in tea plantation [J], BMC Microbiol . 2020, 20(1), 190.

5) Qingshan Xu, Long Cheng, Yu Mei, Linli Huang, Junyan Zhu, Xiaozeng Mi, Youben Yu,* Chaoling Wei*.Alternative Splicing of Key Genes in LOX Pathway Involves Biosynthesis of Volatile Fatty Acid Derivatives in Tea Plant (Camellia sinensis) [J], J. Agric. Food Chem ., 2019, 67: 13021-13032.

6) Zhu Junyan, Wang Xuewen, Guo Lingxiao, Xu Qingshan, Zhao Shiqi, Li Fangdong, Yan Xiaomei, Liu Shengrui, Wei Chaoling*. Characterization and alternative splicing profiles of lipoxygenase gene family in tea plant (Camellia sinensis) [J]. Plant Cell Physiol ., 2018.

7) Zhu Junyan†, Wang Xuewen†, Xu Qingshan†, Zhao Shiqi†, Tai Yuling, Wei Chaoling. Global dissection of alternative splicing uncovers transcriptional diversity in tissues and associates with the flavonoid pathway in tea plant (Camellia sinensis) [J]. BMC Plant Biol ., 2018, 18: 266.

8) Qingshan Xu†, Yaxian He†, Xiaomei Yan, Shiqi Zhao, Junyan Zhu, Chaoling Wei*. Unraveling a crosstalk regulatory network of temporal aroma accumulation in tea plant (Camellia sinensis) leaves by integration of metabolomics and transcriptomics [J], Environmental and Experimental Botany , 2018, 149:81.

9) Xu Qingshan, Zhu Junyan, Zhao Shiqi, Hou Yan, Li Fangdong, Tai Yuling, Wan Xiaochun*, Wei ChaoLing*.Transcriptome Profiling using Single-Molecule Direct RNA Sequencing Approach for in-depth Understanding of Genes in Secondary Metabolism Pathways of Camellia Sinensis [J]. Frontiers in Plant Science , 2017, 8: 1205.

10) Xu Qingshan†, Wang Yu†, Ding Zhaotang*, Fan Kai, Ma Dexin, Zhang Yongliang, Yin Qi. Aluminum induced physiological and proteomic responses in tea (Camellia sinensis) roots and leaves [J]. Plant Physiology & Biochemistry , 2017, 115:141.

11) Xu Qingshan, Wang Yu, Ding Zhaotang*, Song Lubin, Li Yusheng, Ma Dexin, Wang Yi, Shen Jiazhi, Jia Sisi, Sun Haiwei, Zhang Hong. Aluminum induced metabolic responses in two tea cultivars [J]. Plant Physiology & Biochemistry , 2016, 101:162.

6、授权发明专利：

丁兆堂，徐清山，王玉. 一种北方棕壤土新建茶园专用土壤改良剂配方：CN104893735B [P]. 2018.

7、联系方式

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