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教育背景

200809-201207	中山大学	生命科学学院生态学系	理学学士
201209-201507	中国科学院大学	沈阳应用生态研究所	理学硕士
	论文《大豆 *GmIDA* 基因功能研究与转录组数据分析》		
	合作导师：崔敏龙研究员		
201509-201907	美国田纳西大学	赫伯特农学院植物科学系	哲学博士
	论文《Functional Study of Plant SABATH Methyltransferases in the Biosynthesis of Methyl Cinnamate, Juvenile Hormone III and Methyl Gibberellins》		
	合作导师： Feng Chen 教授		

工作经历

201309-201507	沈阳应用生态研究所	研究助理	
201509-201907	美国田纳西大学	赫伯特农学院植物科学系	研究助理
201910-202203	西湖大学	理学院化学生物学实验室	博士后/助理研究员
202204-202501	哥本哈根大学	植物和环境系	博士后

论文发表

Wang, W., **Zhang, C.**, Guo, H., & Chen, F. (2025). A novel auxin methyltransferase of the SABATH family for phenylacetic acid methylation is conserved in potato and tomato. Plant physiology and biochemistry : PPB, 224, 109972. Advance online publication. https://doi.org/10.1016/j.plaphy.2025.109972

Liang, F., Xie, Y., **Zhang, C.**, Zhao, Y., Motawia, M. S., Kampranis, S. C. (2025). Elucidation of the final steps in Taxol biosynthesis and its biotechnological production. Nature Synthesis, https://doi.org/10.1038/s44160-025-00800-z

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Magnus, N., von Reuss, S. H., Braack, F., **Zhang, C.**, Baer, K., Koch, A., Hampe, P. L., Sutour, S., Chen, F., & Piechulla, B. (2023). Non-canonical Biosynthesis of the Brexane-Type Bishomosesquiterpene Chlororaphen through Two Consecutive Methylation Steps in Pseudomonas chlororaphis O6 and Variovorax boronicumulans PHE5-4. Angewandte Chemie (International ed. in English), 62(29), e202303692.

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Chen, S., ***Zhang, C.**, & Zhang, L. (2022). Investigation of the Molecular Landscape of Bacterial Aromatic Polyketides by Global Analysis of Type II Polyketide Synthases. Angewandte Chemie (International ed. in English), 61(24), e202202286. (*Co-first authors)

Jiang, Y., Liu, G., Zhang, W., **Zhang, C.**, Chen, X., Chen, Y., Yu, C., Yu, D., Fu J., Chen, F., 2021. Biosynthesis and emission of methyl hexanoate, the major constituent of floral scent of a night-blooming water lily *Vicoria cruziana*. Phytochemistry. 191:112899

Piechulla, B., **Zhang, C.**, Eisenschmidt-Bönn, D., Chen, F., Magnus, N., 2021. Non-canonical substrates for terpene synthases in bacteria are synthesized by a new family of methyltransferases. FEMS Microbiol Rev. fuab024.

Zhang, C., Chaiprasongsuk, M., Chanderbali, A.S., Chen, X., Fu, J., Soltis, D.E., Chen, F., 2020. Origin and evolution of a gibberellin-deactivating enzyme GAMT. Plant Direct. 4(12):e00287.

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Zhang, C., Chen, X., Crandall-Stotler, B., Guo, H., Qian, P., Köllner, T. and Chen, F., 2019. Biosynthesis of methyl (*E*)-cinnamate in the liverwort *Conocephalum salebrosum* and evolution of cinnamic acid methyltransferase. Phytochemistry. 164, 50-59.

*Chaiprasongsuk, M., *__Zhang, C.__, Qian, P., Chen, X., Li, G., Trigiano, R. N., Guo, H. and Chen, F., 2018. Biochemical characterization in Norway spruce (*Picea abies*) of SABATH methyltransferases that methylate phytohormones. Phytochemistry. 149, 146-154. (*Co-first authors)

Zhang, C., Gao, Z., Dong, Y. and Cui, M., 2015. Transcriptome analysis of inflorescences from four soybean cultivars. Chinese Journal of Ecology. 34, 3391-3396. (*In Chinese*)

Li, Y., Gao, Z., **Zhang, C.**, Li, N. and Liu, C., 2015. Research progress on the molecular regualtion mechanism of anthocyanin biosynthesis pathway. Chinese Journal of Ecology. 34, 2937-2942. (*In Chinese*)

Song, Q., Liu, C., Gao, Z., Li, Y., **Zhang, C.** and Cui, M., 2014. Optimal temperature for hsp18.2 promoter in gene expression of anthocyanin biosynthesis of *Antirrhinum majus*. Chinese Journal of Ecology. 33, 2436-2441. (*In Chinese*)

参会报告

"Biochemical Characterization of SABATH Methyltransferases in Liverworts" iMOSS 2018, St. Petersburg, Florida, June 2018.

参研项目

时间	项目名称	资助
2024-2026	真菌中非典型萜类合成	诺和诺德基金
2023-2025	紫杉醇的生物合成	丹麦国家研究基金
2019-2022	《聚酮合酶组装线改造》	西湖大学
2018-2019	《phytosensor》	DARPA
2015-2019	《Functional and Evolutionary Study of SABATH methyltransferase》	UTAgResearch
2015-2017	《大豆中编码 PIP 结构域的 GmIDL 基因在侧根发育中的功能研究》	国家自然科学基金
2015-2017	《GmPHRs 基因在大豆根应答低磷胁迫过程中的功能分析》	国家自然科学基金
2014-2017	《大豆根系中应答重金属 Cd 胁迫的基因表达模式的研究》	国家自然科学基金

专业服务

《Horticulture Research》，《Plant Direct》 审稿人

获奖荣誉

AgResearch Travel Award, UT Institute of Agriculture, 2018

院级优秀团支书, 2008, 2010

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