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2011–2015　硕博连读，园艺学院，南京农业大学
2013–2014　联合培养博士，自然与科技学院，丹麦奥胡斯大学
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主要研究方向为非生物胁迫下植物的生理生化及分子调控机制。通过耐逆野生番茄材料的筛选，我们从多角度联合分析阐明了植物耐逆（尤其是复合胁迫下）机制。同时，结合胁迫记忆、外源激素调控、CO_2加富等手段，提出了有效增强植物应对逆境的新见解。</td></tr>
<tr><td>科研项目</td><td colspan="4">[1] The effect of elevated CO2 concentration and exogenous melatonin on tomatoes at combined heat and drought（复合胁迫下 CO2 上调和外源褪黑素对番茄生长发育的影响），Aarhus University Research Foundation，在研，主持。
[2] Biosubstrate，Bio based growth media for plant production（基于生物的植物生长基质），GUDP（丹麦绿色发展示范项目），在研，主持。
[3] 国家自然科学基金青年基金项目，31601745，番茄响应高温干旱胁迫的生理生化和环状 RNAs 调控机制解析，结题，主持。
[4] 江苏省自然科学基金青年基金项目，BK20160579，高温干旱胁迫下番茄生理生化和环状 RNAs 调控机制解析，结题，主持。
[5] 江苏省农业科学院院基金，基于混池分组分析法的番茄花青素遗传特点分析及分子标记开发，结题，主持。
[6] 欧盟 Interreg 项目，Salfar-耐盐作物关键生长调控机理研究，在研，子课题主持。
[7] DFF-Forskningsprojekt1 (tematisk forskning)/DFF-Research Project1 (Thematic Research)，Impact of plant-based diet on the</td></tr>
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	consumption of health promoting microRNA’s，在研，参加。 [8] MUDP, ’Waste to Value – Biofertilizer’ med Bacess A/S,在研，参加。 [9] 省农业重大品种创制，优质多抗高产设施番茄重大新品种创制,在研，参加。 [10] 国家重点研发计划，茄科蔬菜优质多抗设施新品种培育,结题，参加。 [11] 江苏省农业科学院院基金，番茄杂种优势群划分及性状相关性。结题，参加。
发表论文	**[1]** **Rong Zhou***, et al. (2020). The alleviation of photosynthetic damage in tomato under drought and cold stress by high CO_2 and melatonin. International Journal of Molecular Sciences, 21, 5587. **[2]** **Rong Zhou***, et al. (2020). Genotype-dependent responses of chickpea to high temperature and moderately increased light. Plant Physiology and Biochemistry, 154: 353-359. **[3]** **Rong Zhou***, et al. (2020). Interactive effects of elevated CO_2 concentration and combined heat and drought stress on tomato photosynthesis. BMC Plant Biology, 20: 1-12. **[4]** **Rong Zhou***, et al. (2020). Combined high light and heat stress induced complex response in tomato with better leaf cooling after heat priming. Plant Physiology and Biochemistry, 151: 1-9. **[5]** **Rong Zhou***, et al. (2020). Unique miRNAs and their targets in tomato leaf responding to combined drought and heat stress. BMC Plant Biology, 20: 107. **[6]** **Rong Zhou***, et al. (2020). High throughput sequencing of circRNAs in tomato leaf responding to multiple stress of drought and heat. Horticultural Plant Journal, 6: 34-38. **[7]** **Rong Zhou***, et al. (2019). Physiological analysis and transcriptome sequencing reveal the effects of combined cold and drought on tomato leaf. BMC Plant Biology, 19: 377. **[8]** **Rong Zhou**, et al. (2019). Oxidative damage and antioxidant mechanism in tomatoes responding to drought and heat stress. Acta Physiol Plant, 41: 20-30. **[9]** **Rong Zhou**, et al. (2019). Physiological response of tomatoes at drought, heat and their combination followed by recovery, Physiol Plant, 165: 144-154. **Highly cited paper** **[10]** **Rong Zhou**, et al. (2019). Genome-wide identification of circRNAs in tomato seeds in response to high temperature. Biol Plantarum, 63: 97-103.

	[11] <u>Rong Zhou</u>, et al. (2018). Phenotyping of broad beans (*Vicia faba* L.) under cold and heat stress using chlorophyll fluorescence. Euphytica, 214: 68-80. **[12] <u>Rong Zhou</u>**, et al. (2018). Evaluation of temperature stress tolerance among cultivated and wild tomatoes using photosynthesis and chlorophyll fluorescence. Hortic Environ Biote, 59: 499-509. **[13] <u>Rong Zhou</u>**, et al. (2018) Genome-wide identification of circRNAs involved in tomato fruit coloration. Biochem Bioph Res Co, 499: 466-469. **[14] <u>Rong Zhou</u>**, et al. (2017). Drought stress had a predominant effect over heat stress on three tomato cultivars subjected to combined stress. BMC Plant Biol, 17: 24-36. **Highly cited paper** **[15] <u>Rong Zhou</u>**, et al. (2017). Physiological response to heat stress during seedling and anthesis stage in tomato genotypes differing in heat tolerance. J Agron Crop Sci, 203: 68-80. **[16] <u>Rong Zhou</u>**, et al. (2016). Identification of miRNAs and their targets in tomato at moderately and acutely elevated temperatures by high-throughput sequencing and degradome analysis. Sci Rep, 6: 33777-33789. **[17] <u>Rong Zhou</u>**, et al. (2015). Screening and validation of tomato genotypes under heat stress using F_v/F_m to reveal the physiological mechanism of heat tolerance. Environ Exp Bot, 118: 1-11. **[18] <u>Rong Zhou</u>**, et al. (2015). Genetic diversity of cultivated and wild tomatoes revealed by morphological traits and SSR markers. Genetics and Molecular Research, 14: 13868-13879. **[19] <u>Rong Zhou</u>**, et al. (2015). Comparison of gSSR and EST-SSR markers for analyzing genetic variability among tomato cultivars. Genetics and Molecular Research, 14: 13184-13194. **[20]** Lamis Osama Anwar Abdelhakim, Carolina Falcato Fialho Palma, **<u>Rong Zhou</u>**, et al. (2021). The effect of individual and combined drought and heat stress under elevated CO_2 on physiological responses in spring wheat genotypes. Plant Physiology and Biochemistry, accepted. **[21]** Junqin Wen, Fangling Jiang, Min Liu, **<u>Rong Zhou</u>**, et al. (2021). Identification and Expression Analysis of Cathepsin B-like protease 2 Genes in Tomato at Abiotic Stresses Especially at High Temperature. Scientia Horticulturae, 277:109799. **[22]** Xiao-Ming Song, Jingjing Hu, Tong Wu, Qihang Yang, Xuehuan Feng, Hao Lin, Shuyan Feng, Chunlin Cui, Ying Yu, **Rong Zhou**, et al. (2020). Comparative analysis of long non-coding RNAs in angiosperm and characterization of long non-coding RNAs in response to heat stress in

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