

CURRICULUM VITAE

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Research Interest			
The molecular basis of legume-rhizobial symbiosis.			
Professional Memberships			
Other Roles			
Education & Working Experience			
Education:			
2004-2008: Ph.D., Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing, China			
2001-2004: Master, Key Lab of Plant Stress Research, Shandong Normal University, Jinan, China			
1997-2001: Bachelor, Department of Biology, Shandong Normal University, Jinan, China			
Professional Experiences:			



2015-present: Professor, National Key Lab of Agricultural University and College of Life Science and Technology, Huazhong agricultural University.

2012-2015: Postdoctoral Research Associate, Division of Plant Sciences and National Center for Soybean Biotechnology, University of Missouri.

Supervisor: Prof. Gary Stacey

2008-2012: Postdoctoral Research Associate, Department of Plant pathology, University of Wisconsin-Madison.

Supervisor: Prof. Andrew F. Ben

Publications

1. Huang R, Li Z, Mao C, Zhang H, Sun Z, Li H, Huang C, Feng Y, Shen X, Bucher M, Zhang Z, Lin Y, Cao Y*, Duanmu D*. 2019. Natural variation at OsCERK1 regulates arbuscular mycorrhizal symbiosis in rice. *New Phytol.* DOI: 10.1111/nph.16158
2. Yin J, Guan X, Zhang H, Wang L, Li H, Zhang Q, Chen T, Xu Z, Hong Z, Cao Y*, Zhang Z*. 2019. An MAP kinase interacts with LHK1 and regulates nodule organogenesis in *Lotus japonicus*. *Sci China Life Sci.* 62(9):1203-1217
3. Yu H, Bao H, Zhang Z, Cao Y*. 2019. Immune signaling pathway during terminal bacteroid differentiation in nodules. *Trends Plant Sci.* 24: 299-3024.
4. Zhang L, Liu JY, Gu H, Du Y, Zuo JF, Zhang Z, Zhang M, Li P, Dunwell JM, Cao Y, Zhang Z, Zhang YM. 2018. Bradyrhizobium diazoefficiens USDA 110- Glycine max Interactome Provides Candidate Proteins Associated with Symbiosis. *J Proteome Res.* 17:3061-3074
5. Yu H, Xiao A, Dong R, Fan Y, Zhang X, Liu C, Wang C, Zhu H, Duanmu D, Cao Y*, Zhang Z*. 2018. Suppression of innate immunity mediated by the CDPK - Rboh complex is required for rhizobial colonization in *Medicago truncatula* nodules. *New Phytol.* 220: 425-434
6. Li H, Chen M, Duan L, Zhang T, Cao Y, Zhang Z. 2018. Domain swap approach reveals

- the critical roles of different domains of SymRK in root nodule symbiosis in *Lotus japonicus*. *Front Plant Sci.* 9:697
7. Chen D, Cao Y, Li H, Kim D, Ahsan N, Thelen J, Stacey G. 2017. Extracellular ATP elicits DORN1-mediated RBOHD phosphorylation to regulate stomatal aperture. *Nat Commun.* 2017 8: 2265.
 8. Chen T, Duan L, Zhou B, Yu H, Zhu H, Cao Y, Zhang Z. 2017. Interplay of Pathogen-Induced Defense Responses and Symbiotic Establishment in *Medicago truncatula*. *Front. Microbiol.* 8:973
 9. Liao D#, Cao Y#, Sun X, Espinoza C, Nguyen CT, Liang Y, Stacey G. 2017. Arabidopsis E3 ubiquitin ligase PLANT U-BOX13 (PUB13) regulates chitin receptor LYSIN MOTIF RECEPTOR KINASE5 (LYK5) protein abundance. *New Phytol.* 214:1646-1656.
 10. Cao Y, Halane MK, Gassmann W, Stacey G. 2017. The role of plant innate immunity in the legume-rhizobium symbiosis. *Annu. Rev. Plant Biol.* 68:535-561
 11. Nguyen CT, Tanaka K, Cao Y, Cho SH, Xu D, Stacey G. 2016. Computational Analysis of the Ligand Binding Site of the Extracellular ATP Receptor, DORN1. *PLoS One.* 11: e0161894.
 12. Wang C, Yu H, Luo L, Duan L, Cai L, He X, Wen J, Mysore KS, Li G, Xiao A, Duanmu D, Cao Y, Hong Z, Zhang Z. 2016. NODULES WITH ACTIVATED DEFENSE 1 is required for maintenance of rhizobial endosymbiosis in *Medicago truncatula*. *New Phytol.* 212:176-91.