

# CURRICULUM VITAE

Personal Information			
Name	Deqiang DUANMU	Gender	Man
Position Title		Professor	
Working Department			
Email	duanmu@mail.hzau.edu.cn		
Address			
Tel	18694067218	Fax	
Research Interest			
Photosynthetic mechanism and synthetic biology; Symbiotic nitrogen fixation and nodule development; Chloroplast retrograde signaling; Tetrapyrrole metabolism;			
Professional Memberships			
Other Roles			
Education & Working Experience			
Education:  1995-1999, B.S., Biophysics, Peking University. 1999-2002, M.S., Cell biology, Chinese Academy of Sciences. 2002-2009, Ph.D., Plant Biology, Iowa State University,.			
Professional Experiences:  2009-2014, Postdoctoral researcher, UC Davis.  2014-present, Professor, College of Life Science and Technology, Huazhong Agricultural			

University (HZAU).

## Publications

1. Huang R, Li Z, Mao C, Zhang H, Sun Z, Li H, Huang C, Feng Y, Shen X, Zhang Z, Lin Y, Cao Y<sup>#</sup>, Duanmu D<sup>#</sup>. Natural variations at OsCERK1 regulate arbuscular mycorrhizal symbiosis in rice. *New Phytol*, 2019 Sep 4. doi: 10.1111/nph.16158.
2. Wang L, Maria C, Xin X, Zhang B, Fan Q, Wang Q, Ning G, Becana M, Duanmu D. CRISPR/Cas9 knockout of leghemoglobin genes in *Lotus japonicus* uncovers their synergistic roles in symbiotic nitrogen fixation. *New Phytol*, 2019, 224(2):818-832.
3. Wittkopp TM, Schmollinger S, Saroussi S, Hu W, Zhang W, Fan Q, Gallaher SD, Leonard MT, Soubeyrand E, Basset GJ, Merchant SS, Grossman AR, Duanmu D<sup>#</sup>, Lagarias JC<sup>#</sup>. Bilin-dependent photoacclimation in *Chlamydomonas reinhardtii*. *Plant Cell*, 2017, 29(11):2711-2726.
4. Duanmu D<sup>#</sup>, Rockwell NC, Lagarias JC<sup>#</sup>. Algal Photomorphogenesis and Light Sensing in Aquatic Environments. *Plant Cell Environ*, 2017, 40(11):2558-2570.
5. Wang L, Wang L, Tan Q, Fan Q, Zhu H, Hong Z, Zhang Z<sup>#</sup>, Duanmu D<sup>#</sup>. Efficient Inactivation of Symbiotic Nitrogen Fixation Related Genes in *Lotus japonicus* Using CRISPR-Cas9. *Front. Plant Sci*, 2016, 7:1333
6. Duanmu D<sup>\*</sup>, Bachy C<sup>\*</sup>, Sudek S, Wong CH, Jimenez V, Rockwell NC, Martin SS, Ngan CY, Reistetter EN, van Baren MJ, Price DC, Wei CL, Reyes-Prieto A, Lagarias JC, Worden AZ. Marine algae and land plants share conserved phytochrome signaling systems. *Proc Natl Acad Sci USA*, 2014, 111(44):15827-15832.
7. Duanmu D, Casero D, Dent RM, Gallaher S, Yang W, Rockwell NC, Martin SS, Pellegrini M, Niyogi KK, Merchant SS, Grossman AR, Lagarias JC. Retrograde bilin signaling enables *Chlamydomonas* greening and phototrophic survival. *Proc Natl Acad Sci USA*, 2013, 110(9):3621-3626.

8. Duanmu D, Spalding MH. Insertional suppressors of *Chlamydomonas reinhardtii* that restore growth of air-dier lcib mutants in low CO<sub>2</sub>. *Photosynth Res*, 2011,109 (1-3):123-132.
9. Duanmu D, Miller AR, Horken KM, Weeks DP, Spalding MH. Knockdown of limiting-CO<sub>2</sub>-induced gene HLA3 decreases HCO<sub>3</sub><sup>-</sup> transport and photosynthetic Ci-affinity in *Chlamydomonas reinhardtii*. *Proc Natl Acad Sci USA*, 2009, 106(14):5990-5995.
10. Duanmu D, Wang Y, Spalding MH. Thylakoid lumen carbonic anhydrase (CAH3) mutation suppresses air-Dier phenotype of LCIB mutant in *Chlamydomonas reinhardtii*. *Plant Physiol*, 2009, 149(2):929-937.