Yangfen--Curriculum Vitae

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Education

2017-up PhD student in Center of plant structural and functional genomics of the Institute of experimental botany AS CR

2016-2017 PhD student in Max Planck Institute of Plant Breeding Research, Germany

2013-2016 Master student in Shanghai Center for Plant Stress Biology, Chinese Academy of Science, Shanghai, China

2009-2013 Bachelor in Bioscience, Shandong university, Weihai, China.

Research focus:

My project focuses on understanding the function of SMC5/6 complex during the generative development in *Arabidopsis thaliana*. Flowering plants undergo a series of complex developmental transitions including production of gametes and seeds during generative development. Structural maintenance of chromosomes (SMC) 5/6 complex has a crucial function in control of genome stability and DNA damage repair. However, precise molecular mechanisms of SMC5/6 complex subunits are influential in pollen development and fertility. Furthermore, mutations in HPY2 and SIN1 subunits of the SMC5/6 complex result in the increased frequency of aborted seeds. This suggests that SMC5/6 complex has unknown function in gametogenesis and seed development. I will focus on molecular and genetic characterization of this phenotype in *Arabidopsis thaliana*.

Publication

Bai G, Yang DH, Zhao Y, Ha S, Yang F, Ma J, Gao XS, Wang ZM, Zhu JK. (2013). Interactions between soybean ABA receptors and type 2C protein phosphatases. Plant Molecular Biology 83, 651–664.

Wang S, Bai G, Wang S, Yang L, Yang F, Wang Y, et al. (2016) Chloroplast RNA-Binding Protein RBD1 Promotes Chilling Tolerance through 23S rRNA Processing in Arabidopsis. PLoS Genet 12(5): e1006027.