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## ■ **Education and Degrees**

### **September 2017—present Postdoc**

Sainsbury Laboratory Cambridge, University of Cambridge

### **April 2017—August 2017 Postdoc**

Research group of Plant Architecture, Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)

### **July 2012—March 2017 PhD of Science (Agriculture)**

Research group of Plant Architecture, Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)

### **September 2009-July 2012 Master of Science (Ecology)**

Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences

### **September 2004-July 2008 Bachelor of Science (Biotechnology)**

College of Life Sciences, Northwest A&F University

## ■ **Peer-reviewed Publications**

1. **Guo ZF\***, Liu GZ, Zhao YS, Reif JC, Röder MS, Ganai MW, Schnurbusch T\*. (2018). Genome-wide association analysis of plant growth traits during the stem elongation phase in wheat. *Plant Biotechnology. Accepted.* (IF: 7.443)
2. **Guo ZF**, Chen DJ, Alqudah AM, Röder MS, Ganai MW, Schnurbusch T (2017) Genome-wide association analyses of 54 traits identified multiple loci for the determination of floret fertility in wheat. *New Phytologist* 214: 257-270. (IF 7.210)
3. **Guo ZF\***, Chen DJ, Röder MS, Ganai MW, Schnurbusch T\*. Genetic dissection of reproductive spike development in wheat (2018). *Plant Journal. Accepted* (IF: 5.901).

4. **Guo ZF**, Slafer GA, Schnurbusch T (2016) Genotypic variation in spike fertility traits and ovary size as determinants of floret and grain survival rate in wheat. [\*Journal of Experimental Botany\* 67: 4221-4230. \(IF 5.830\)](#)
5. **Guo ZF**, Schnurbusch T (2016) Costs and benefits of awns. [\*Journal of Experimental Botany\* 67: 2533-2535. \(IF 5.830\)](#)
6. **Guo ZF**, Schnurbusch T (2015) Variation of floret and spikelet fertility in wheat revealed by tiller removal. [\*Journal of Experimental Botany\* 66: 5945-5958. \(IF 5.830\)](#)
7. **Guo ZF**, Chen DJ, Schnurbusch T (2015) Variance components, heritability and correlation analysis of anther and ovary size during the floral development of bread wheat. [\*Journal of Experimental Botany\* 66:3099-3111. \(IF 5.830\)](#)
8. **Guo ZF**, Chen DJ, Schnurbusch T (2018) Dissecting plant and floret growth during the stem elongation phase in wheat. [\*Frontiers in Plant science\* 9:330. \(IF 4.298\)](#)
9. **Guo ZF**, Zhao YS, Reif JC, Röder MS, Ganai MW, Schnurbusch T. (2018). Manipulation and prediction of spike morphology traits for improvement of grain yield in wheat. [\*Scientific Reports. Major revision. \(IF 4.259\)\*](#)

## ■ **Project participation**

1. **EU-FP7 KBBE-2011-5 'ADAPTAWHEAT'**: Genetics and physiology of wheat development to flowering: tools to breed for improved adaptation and yield potential; 2012.01.01-2015.12.31; project number: 289842; total fundings: 4 894 960 EUR; sub-project leader (fundings 227 600 EUR).
2. **Bayer CropScience (EU Collaboration Project)**: Effects of high CO<sub>2</sub> concentration on floret fertility in wheat; 2016.05.01-2017.08.31; total fundings: 30000 EUR; sub-project leader (fundings 20000 EUR).

## ■ **Oral presentations**

**Guo ZF**. Save floret! Save yield! Save life! 5th Quedlinburger Pflanzenzüchtungstage in combination with 18th Kurt von Rümker Vorträge and the GPZ Meeting of AG Genomanalyse. Corrensstr. 3, OT Gatersleben, D-06466 Stadt Seeland, Germany, 1<sup>st</sup>-3<sup>rd</sup>, Mar., 2017.

**Guo ZF**. Developmental and genetic analysis of pre-anthesis phases in hexaploid winter wheat (*Triticum aestivum* L.). EU-FP7 KBBE-2011-5 'ADAPTAWHEAT' project, University of Lleida, Av. Rovira Roure 191, 25198 Lleida, Spain, 6<sup>th</sup>-7<sup>th</sup> Feb., 2014.

## ■ Poster contributions

**Guo ZF**, Röder M, Schnurbusch T. The genetic analysis of floret fertility and related traits in wheat (*Triticum aestivum* L.). Ninth Plant Science Student Conference (PSSC). Leibniz-Institute for Plant biochemistry, Halle (Saale), Germany, 26<sup>th</sup>-31<sup>st</sup> May, 2013.

**Guo ZF**, Röder M, Schnurbusch T. Timing and fate of floral development in wheat (*Triticum aestivum* L.). 12<sup>nd</sup> International Wheat Genetics Symposium (IWGS), 1-1-1 Minato Mirai, Nishi-ku, Yokohama 220-0012, Japan, 8<sup>th</sup> -14<sup>th</sup> Sep., 2013.

**Guo ZF**, Schnurbusch T. Influence of de-tillering on floral degradation, maximum floret primordia and fertile floret number. Tenth Plant Science Student Conference (PSSC). Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany, 2<sup>nd</sup>-5<sup>th</sup> Jun., 2014.

**Guo ZF**, Chen D, Ganal M, Röder M, Schnurbusch T. The genetic analysis of floret fertility and related traits in wheat. Cereals for Food, Feed and Fuel – Challenge for Global Improvement, Joint EUCARPIA Cereal Section & ITMI Conference, Wernigerode, Germany, Jun., 29<sup>th</sup> – Jul. 4<sup>th</sup>, 2014.

**Guo ZF**, Ganal M, Röder M, Schnurbusch T. Genome-Wide Association Study of Flowering Time in hexaploid Winter Wheat (*Triticum aestivum* L.). EU-FP7 KBBE-2011-5 'ADAPTAWHEAT' project, Centre for Agricultural Research Hungarian Academy of Sciences, Martonvásár, Hungary, 5<sup>th</sup>-7<sup>th</sup> Nov., 2014.

**Guo ZF**, Ganal M, Röder M, Schnurbusch T. Genome-Wide Association Study of Flowering Time in hexaploid Winter Wheat (*Triticum aestivum* L.). International Plant & Animal Genome XXIV (PAG), San Diego, CA, USA, 9<sup>th</sup>-13<sup>rd</sup> Jan., 2015.

**Guo ZF**, Chen DJ, Ganal M, Röder M, Schnurbusch T. Genetic determinants of grain yield in wheat revealed by assimilate partitioning. International Plant & Animal Genome XXIV (PAG), San Diego, CA, USA, 9<sup>th</sup>-13<sup>rd</sup> Jan., 2016.

**Guo ZF**, Slafer GA, Schnurbusch T. Genotypic variation in spike fertility traits and ovary size as determinants of floret and grain survival rate in wheat. 7<sup>th</sup> International Crop Science Congress, Beijing, China, 14<sup>th</sup>-19<sup>th</sup> Aug., 2016.

**Guo ZF**, Chen DJ, Alqudah A, Ganal M, Röder M, Schnurbusch T. Genome-wide association analyses for the determination of floret fertility in wheat. 13<sup>th</sup> International Wheat Genetics Symposium (IWGS), Tulln, Austria, 23<sup>rd</sup>-28<sup>th</sup> May, 2017.