

Institution: **Sainsbury Laboratory Cambridge, University of Cambridge**

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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 CO₂ 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, 1st-3rd, 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, 6th-7th 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, 26th-31st May, 2013.

Guo ZF, Röder M, Schnurbusch T. Timing and fate of floral development in wheat (*Triticum aestivum* L.). 12nd International Wheat Genetics Symposium (IWGS), 1-1-1 Minato Mirai, Nishi-ku, Yokohama 220-0012, Japan, 8th -14th 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, 2nd-5th 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., 29th – Jul. 4th, 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, 5th-7th 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, 9th-13rd 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, 9th-13rd 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. 7th International Crop Science Congress, Beijing, China, 14th-19th 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. 13th International Wheat Genetics Symposium (IWGS), Tulln, Austria, 23rd-28th May, 2017.