

Keke Wang

Laboratoire Genomique et Biotechnologie du Fruit

UMR990 INRA/INP-ENSAT

31326 Castanet-Tolosan Cedex

Email: keke.wang@ensat.fr

EDUCATION

- Oct 2015 **Doctoral degree** in Plants-Microorganismes Interactions
Laboratoire des Interactions Plantes Micro-organismes
(LIPM)-INRA and Université Paul Sabatier, Toulouse, France
- June 2012 **Master's degree** in Plant Genetics & Breeding
China Agricultural University, Beijing, China
- June 2009 **Bachelor's degree** in Agronomy
Henan Agricultural University, Henan, China

RESEARCH EXPERIENCE

May 2016-Sept 2018 **Postdoctoral project:**

- Functional and molecular characterization of the role of *R. solanacearum* type-III effector proteins in plant immune responses
- Widespread dynamic DNA methylation in *Arabidopsis* during *R. solanacearum* infection

@ PSC, Shanghai, China. (Research advisor: Dr. Alberto Macho)

Sept 2012-Oct 2015 **Ph.D project:**

Role of the type III effector RipG7 in the compatible interaction between *R. solanacearum* and *M. truncatula*

@ LIPM-INRA, Toulouse, France. (Research advisor: Dr. Nemo Peeters)

Sept 2014 (4 weeks) **Collaboration visit:**

Yeast two-hybrid screening to identify plant targets of a subset of *R. solanacearum* core Type III effectors

@ The James Hutton Institute, Dundee, UK. (Advisors: Dr. Miles R Armstrong and Prof. Paul Birch)

Sept 2009-2012 **Master training:**

Map-based cloning of wrinkled kernel gene in maize

@ China Agricultural University, Beijing, China. (Advisor: Prof. Jinsheng Lai)

KEY STILLS

Experimental skills

- DNA cloning: DNA extraction, gateway cloning, bacterial transformation, site-directed mutagenesis
- RNA extraction; protein extraction
- Yeast two-hybrid
- Co-immunoprecipitation
- Split-luciferase
- Western blot
- Confocal microscopy
- *Arabidopsis* transformation
- *In vitro* hairy root of *Medicago truncatula* generation

Languages

- English:
 - GRE (303/340)
 - Read and write scientific reports and publications
 - Give multiple oral presentations to a professional audience
- Chinese:
 - Native

PUBLICATIONS

1. Wei, Y., Caceres-Moreno, C., Jimenez-Gongora, T., **Wang, K.**, Sang, Y., Lozano-Duran, R., and Macho, A.P. (2018). The *Ralstonia solanacearum* csp22 peptide, but not flagellin-derived peptides, is perceived by plants from the Solanaceae family. *Plant Biotechnol. J.* *16*, 1349–1362.

2. Sun, Y., **Wang, K.**, Caceres-Moreno, C., Jia, W., Chen, A., Zhang, H., Liu, R., and Macho, A.P. (2017). Genome sequencing and analysis of *Ralstonia solanacearum* phylotype I strains FJAT-91, FJAT-452 and FJAT-462 isolated from tomato, eggplant, and chili pepper in China. *Stand. Genomic Sci.* *12*.

I am co-first author of this work.

3. **Wang, K.**, Remigi, P., Anisimova, M., Lonjon, F., Kars, I., Kajava, A., Li, C.-H., Cheng, C.-P., Vailliau, F., Genin, S., et al. (2016). Functional assignment to positively selected sites in the core type III effector RipG7 from *Ralstonia solanacearum*. *Mol. Plant Pathol.* *17*, 553–564.

4. Zhang, M., Zhao, H., Xie, S., Chen, J., Xu, Y., **Wang, K.**, Zhao, H., Guan, H., Hu, X., Jiao, Y., et al. (2011). Extensive, clustered parental imprinting of protein-coding and noncoding RNAs in developing maize endosperm. *Proc. Natl. Acad. Sci. U. S. A.* *108*, 20042–20047.