

Mr. Baoxing Song (宋宝兴)

Surname: Song **Given name:** Baoxing

Birth place: Shandong, P.R.CHINA

Birth day: 18/09/1987

Sex: Male **Nationality:** China



Research Experience

2014.02-present	Bioinformatics and comparative genomics group, Department of Comparative Development and Genetics, Max Planck Institute for Plant Breeding Research
2011-2013.07	Functional Genomics Group, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences (CAS - QIBEBT)
2010.09-2013.07	College of Veterinary Medicine, Northwest A&F University Master of Animal Biotechnology
2006.09-2010.07	Bioengineering department, Zhengzhou University Bachelor of Science

Programming Skills

Perl, Java, R, Python, C/C++, MySQL, HTML(DIV+CSS), JavaScript (jQuery), J2EE (Spring/Struts 2 + Hibernate), LaTEX.

Publications

Plant:

- 1 Xiangchao Gan, another 10 co-authors, **Baoxing Song**, another 18 co-authors, Miltos Tsiantis. The Cardamine hirsuta genome offers insight into the evolution of morphological diversity. *Nature Plants* 2(11) November 2016

- 2 Yong Xiang, **Baoxing Song**, Guillaume Née, Katharina Kramer, Iris Finkemeier, Wim Soppe. Sequence polymorphisms at the REDUCED DORMANCY5 pseudophosphatase underlie natural variation in *Arabidopsis* dormancy. *Plant physiology* 171(4):pp.00525.2016

Metagenome:

- 3 **Baoxing Song**, Xiaoquan Su, Jian Xu, Kang Ning. MetaSee: An interactive and extendable visualization toolbox for metagenomic sample analysis and comparison. *Plos One*. 2012.7(11):0048998. (In Chinese)
- 4 Xiaoquan Su, **Baoxing Song**, Jian Xu, Qing Sang, Deli Zhang, Kang Ning. Meta-Mesh: metagenomic data analysis system. *Chinese journal of biotechnology* 30(1):6-17 (in Chinese)
- 5 Xiaoquan Su, Weihua Pan, **Baoxing Song**, Jian Xu, Kang Ning. Parallel-META 2.0: Enhanced Metagenomic Data Analysis with Functional Annotation, High Performance Computing and Advanced Visualization. *Plos One* (2014.9.e89323)

Proteome:

- 6 **Baoxing Song**, Fen Wang, Yang Guo, Qing Sang, Min Liu, Dengyun Li, Wei Fang, Deli Zhang. Protein-protein interaction network-based detection of functionally similar proteins within species. *Proteins*, 2012, 80(7):1736-1743.
- 7 Fen Wang, Min Liu, **Baoxing Song**, Dengyun Li, Huimin Pei, Yang Guo, Jingfei Huang, Deli Zhang. Prediction and characterization of protein-protein interaction networks in swine. *Proteome Sci*, 2012,10(2).
- 8 **Baoxing Song**, Qing Sang, Fen Wang, Deli Zhang. PPI Network-Based Detecting of Proteins with Functional Similarity in a Species. *Acta Biophysica Sinica*, 2011,27(9):789-800. (In Chinese)
- 9 Fen Wang, **Baoxing Song**, Xing Zhao, Yaotian Miao, Dengyun Li, Na Zhou, Pengfei Jiang, Qing Sang, Jingfei Huang and Deli Zhang. Prediction and analysis of the protein-protein interaction networks for chickens, cattle, dogs, horses and rabbits. *Current Bioinformatics*, 2016,11,131-142. (co-first author)

- 10 Fen Wang, **Baoxing Song**, Dengyun Li, Xing Zhao, Yaotian Miao, Pengfei Jiang, Deli Zhang.
PPIPP: An online protein–protein interaction network prediction and analysis platform.
International Journal of Data Mining and Bioinformatics, 14(4):305

Other:

- 11 Tianli Fan, Yu Xi, Dongsheng Yao, Tingting Zhao, **Baoxing Song**, Daheng Zhu. Study on Biosorption of Crystal Violet by Mycelial Pellets of Aspergillus Terreus M11. *Chemistry & Bioengineering*, 2010,27(3):77-79. (In Chinese)

Software and Online-service:

- 12 Irisas -- Integrated region-based variants synchronization and Annotation for association studies:
<https://github.com/baoxingsong/Irisas>
- 13 AnnotationLiftOver -- This tool converts genome coordinates and gene structure annotation files between lines/accessions: <https://github.com/baoxingsong/AnnotationLiftOver>
- 14 MetaSee -- An interactive visualizaion toolbox for metagenomic sample analysis and comparison: <http://www.metasee.org/> (not available anymore)
- 15 Meta-Mesh -- A well-organized metagenome analysis system: <http://www.meta-mesh.org/> (not available anymore)

Media Report

High Performance Computing Applied to QIBEBT's Computational Metagenomic Research
(http://www.cas.cn/ky/jz/201211/t20121121_3687201.shtml) &
http://english.cas.cn/ST/HT/ht_progress/201211/t20121127_95963.shtml)
<http://www.bio1000.com/gnjz/xueke/bioinformatics/437469.html>

(Recently) Academic Honors

-
- 2011.09 1st prize for postgraduate in Northwest A&F University (1/3, one out of three could win this honor)

2011.09	Excellent student for postgraduate in Northwest A&F University (1/17)
2011.12	Excellent posters award of Graduate University of Chinese Academy of Sciences, graduate academic microbiology Forum 2011 (1/3)
2012.09	Zhengda 1th Scholarship for postgraduate in Shanxi Province (1/17)
2012.10	Principal's Scholarship (1/300)
2012.12	Outstanding Graduate (1/17)
2012.12	National Scholarship (1/30, the highest honor of Chinese postgraduate students)
2013.06	Excellent Graduation Thesis of College of Veterinary Medicine
2013.06	Excellent Graduation Thesis of College of Northwest A&F University

Contact Information

E-mail: songbaoxing168@163.com

Github: <https://github.com/baoxingsong>