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## 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

### Other

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2012. 07. 07      Invited to review a paper submitted to *Bioinformatics* (Online ISSN 1460-2059 – Print ISSN 1367-4803). Manuscript ID: BIOINF-2012-1069.

2012. 10. 16      Invited to be a referee and advisor for a book written by Dr. Gilbert Nin Ling.

### Research Experience

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**Keywords:**      protein-protein    interaction    network,    proteome,    microRNA, metagenome, microbiology, online service, database, bioinformatics, system biology, computational biology.

**2011-present**      Functional Genomics Group, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences (CAS – QIBEBT)  
**Research Assistant:** The analysis of metagenomic data and online service & database & software development. Developed a multi-sample metagenomic data visualization tool, an auto update database and Meta-Mesh – a database and metagenome analysis online platform.

**2010-present**      College of Veterinary Medicine, Northwest A&F University  
**Research Assistant:** Investigate on systems biology of proteome. Modified a graph theory model to detect functionally similar proteins within species, developed an orthologous, a cluster & a domain-motif based PPI networks prediction pipeline, and developed an osteogenic protein database.

**2006–2010**      Bioengineering department, Zhengzhou University  
**Graduation Thesis:** Screening of dye degrading microbiology.

## Research Interests

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Protein interaction, protein complex, metagenome, RNA, drug, diseases etc.

## Education

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2010–present	College of veterinary medicine, Northwest A&F University <b>Master of Animal Biotechnology</b>
2006–2010	Bioengineering department, Zhengzhou University <b>Bachelor of Science</b>

## Additional Skills

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**Programming Skills:** Perl, Java, MySQL, HTML, DIV+CSS, JavaScript (jQuery), J2EE (Struts 2 + Hibernate)

## Publications

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### Metagenome:

- 1 **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
- 2 **Baoxing Song**, Xiaoquan Su, Jian Xu, Qing Sang, Deli Zhang, Kang Ning. Meta-Mesh: a well-organized metagenomic data analysis system for fast and accurate comparison and search of metagenomic samples. *Nucleic Acids Research*. (Inquiries submitted)
- 3 Xiaoquan Su, **Baoxing Song**, Jian Xu, Kang Ning. Parallel-META online: a web service for high-performance taxonomical analysis of metagenomic data. (Co-first author, in preparation)

### Proteome:

- 4 **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.
- 5 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).
- 6 **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)

#### Other:

- 7 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 Development:

- 8 MetaSee: <http://www.metasee.org/download.jsp>
- 9 Meta-Mesh Data Manager: [http://www.meta-mesh.org/news\\_content?id=8](http://www.meta-mesh.org/news_content?id=8)

#### Online-service Development:

- 10 MetaSee -- An interactive visualizaion toolbox for metagenomic sample analysis and comparison: <http://www.metasee.org/>
- 11 Meta-Mesh -- A well-organized metagenome analysis system:  
<http://www.meta-mesh.org/>
- 12 Parallel-Meta online: <http://parallelmeta.metasee.org/> (under development)

#### Database Development:

- 13 PPPID: <http://pppid.biositemap.com/>
- 14 BEGC-SPIDER: <http://autoupdate.metasee.org/>
- 15 Osteogenic protein database: <http://opd.biositemap.com/> (under development)

## Media Report

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High Performance Computing Applied to QIBEBT' s Computational Metagenomic Research  
([http://www.cas.cn/ky/kyjz/201211/t20121121\\_3687201.shtml](http://www.cas.cn/ky/kyjz/201211/t20121121_3687201.shtml) &  
[http://english.cas.cn/ST/HT/ht\\_progress/201211/t20121127\\_95963.shtml](http://english.cas.cn/ST/HT/ht_progress/201211/t20121127_95963.shtml))

## Recently Academic Honors

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2011.09	1 <sup>st</sup> 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)

## Contact Information

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Address:	No.3 Taicheng Road, Yangling, Shaanxi, China, 712100		
Cell Phone:	+86-18792914375		
E-mail:	<a href="mailto:songbaoxing168@163.com">songbaoxing168@163.com</a>	<a href="mailto:songbaoxing@hotmail.com">songbaoxing@hotmail.com</a>	<a href="mailto:songbx@qibebt.ac.cn">songbx@qibebt.ac.cn</a>
Homepage:	<a href="http://songbx.me/">http://songbx.me/</a>		