# Shicheng Guo

Department of Bioengineering

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**Education**

2009-2015 Ph.D in Genetics School of life sciences, Fudan University, Shanghai, China

2005-2009 Bachelor of Science  School of life sciences, Northeast Agricultural University, Harbin, China

**Present Position**

Postdoctoral Fellow at University of California, Department of bioengineering, San Diego, California

**Experience**

2013.05-present, Research assistant at the University of Texas Health Science Center at Houston, Houston, TX

2012.12-2013.04, Visiting Scholar at the University of Texas Health Science Center at Houston, Houston, TX

2012.01-2013.12, Internship in the CAS-MPG Partner Institute for Computational Biology, Shanghai, China

2011.12-2014.09, Internship in the institute of Rheumatology, Immunology and Allergy, Shanghai, China

**Patents**

*Methods and kits for diagnosising of bladder cancer with urine exfoliated cell, China, authorized*

*Methods and kits for prognosising of bladder cancer after surgery with urine exfoliated cell, China, authorized*

**Awards and Honors**

2014, First Place Poster, 17th Annual Human and Molecular Genetics Program Symposium, GSBS, Houston, TX

2012, Silver award of “Cup of Challenge” for College Students’ Innovative Undertaking Contest in Shanghai, China

2009-2013, Model Student of Academic Records (2009, 2012, 2013, Fudan University), Shanghai, China

2007, Second prize of National Mathematical Modeling Contest in Heilongjiang province, Harbin, China

2007, Social practice scholarship (NEAU), Harbin, China

2006, National Encouragement Scholarship, Harbin, China

2005-2007, Model Student of Academic Records (NEAU), Harbin, China

2005, National Scholarship (NEAU), Harbin, China

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| Conferences Reviewer | BIBM 2014 : Bioinformatics and Biomedicine |
| Editorial Board Member | Cancer Genetics (Frontiers in Oncology)  Epigenomics and Epigenetics (Frontiers in Genetics)  Austin Journal of Lung Cancer Research  Jacobs Journal of Biomarkers  SM Journal of Pulmonary Medicine  SRL Oncology & Hematology |

**Review experience (counts/Journal):**



**Data Analysis experiences and Pipeline integration**

Program skills: Six years Perl, R, Linux (Ubuntu) and PBS experiences.

Statistical Analysis Tools: R (mostly), SPSS, Matlab

Genetic Association Related Analysis: Plink,

Methylation Related Analysis: MethPipe, MOABS, BisReadMapper, Bismark

ChIP-seq Related Analysis: MACS2, Plink, [ANNOVAR](http://www.openbioinformatics.org/annovar/)

**Publications [**[**1-29**](#_ENREF_1)**]**

# First Author:

1. Lvzhen Huang, Li Yingjie, Guo Shicheng\*, Sun Yaoyao, Zhang Chunfang, Bai Yujing, Li Shanshan, Yang Fei, Zhao Min, Wang Bin: **Different Hereditary Contribution of the CFH Gene Between Polypoidal Choroidal Vasculopathy and Age-Related Macular Degeneration in Chinese Han People.***Investigative ophthalmology & visual science* 2014, **55:**2534-2538. IF=3.5

2. Yangxing Zhao, Xue Feng, Sun Jinfeng, Guo Shicheng\*, Zhang Hongyu, Qiu Bijun, Geng Junfeng, Gu Jun, Zhou Xiaoyu, Wang Wei: **Genome-wide methylation profiling of the different stages of hepatitis B virus-related hepatocellular carcinoma development in plasma cell-free DNA reveals potential biomarkers for early detection and high-risk monitoring of hepatocellular carcinoma.***Clinical epigtics* 2014, **6:**30.IF=4.5

3. Yangxing Zhao, Sun Jinfeng, Zhang Hongyu, Guo Shicheng\*, Gu Jun, Wang Wei, Tang Ning, Zhou Xiaoyu, Yu Jian: **High-frequency aberrantly methylated targets in pancreatic adenocarcinoma identified via global DNA methylation analysis using methylCap-seq.***Clinical epigenetics* 2014, **6:**18. IF=4.5

4. Zheng Dong, Guo Shicheng, Yang Yajun, Wu Junjie, Guan Ming, Zou Hejian, Jin Li, Wang Jiucun: **Association between ABCG2 Q141K polymorphism and gout risk affected by ethnicity and gender: a systematic review and meta‐analysis.***International Journal of Rheumatic Diseases* 2014.

5. Yu-Long Wang, Feng Shou-Hao, Guo Shicheng\*, Wei Wen-Jun, Li Duan-Shu, Wang Yu, Wang Xiaofeng, Wang Zhuo-Ying, Ma Yan-Yun, Jin Li: **Confirmation of papillary thyroid cancer susceptibility loci identified by genome-wide association studies of chromosomes 14q13, 9q22, 2q35 and 8p12 in a Chinese population.***Journal of medical genetics* 2013, **50:**689-695. IF=6.33

# Other SCI Publication

1. Li-Li Pan, Huang Yuan-Mao, Wang Min, Zhuang Xiao-E, Luo Dong-Feng, Guo Shicheng, Zhang Zhi-Shun, Huang Qing, Lin Sheng-Long, Wang Shao-Yuan: **Positional cloning and next-generation sequencing identified a TGM6 mutation in a large Chinese pedigree with acute myeloid leukaemia.***European Journal of Human Genetics* 2015, **23:**218-223.

2. Qin Xiao, Gao Shan, Luo Hui, Fan Wenguo, Guo Shicheng, Yao Hong, Leng Shuilong, Xu Zhenhua, Tao Tao, Liu Xingyan: **9q33. 3, a stress-related chromosome region, contributes to reducing lung squamous cell carcinoma risk.***Journal of Thoracic Oncology* 2014, **9:**1041-1047.

3. Lijun Wu, Guo Shicheng, Yang Dongqin, Ma Yanyun, Ji Hengdong, Chen Yulin, Zhang Jun, Wang Yi, Jin Li, Wang Jiucun: **Copy number variations of HLA-DRB5 is associated with systemic lupus erythematosus risk in Chinese Han population.***Acta biochimica et biophysica Sinica* 2014, **46:**155-160.

4. Rui Wang, Zhang Jun, Ma Yanyun, Chen Linqi, Guo Shicheng, Zhang Xiaojiao, Ma Yunfang, Wu Lijun, Pei Xiaoyu, Liu Siran: **Association study of miR‑149 rs2292832 and miR‑608 rs4919510 and the risk of hepatocellular carcinoma in a large‑scale population.***Molecular medicine reports* 2014, **10:**2736-2744.

5. Xinqiang Song, Guo Shicheng, Chen Yulin, Yang Chengde, Ji Hengdong, Zhang Feng, Jiang Zhengwen, Ma Yangyun, Li Yuan, Jin Li: **Association between HLA-DQA1 gene copy number polymorphisms and susceptibility to rheumatoid arthritis in Chinese Han population.***Journal of genetics* 2014, **93:**215-218.

6. Nan Lin, Jiang Junhai, Guo Shicheng, Xiong Momiao: **Functional Principal Component Analysis and Randomized Sparse Clustering Algorithm for Medical Image Analysis.***arXiv preprint arXiv:14080204* 2014.

7. Junhai Jiang, Lin Nan, Guo Shicheng, Chen Jinyun, Xiong Momiao: **Methods for Joint Imaging and RNA-seq Data Analysis.***arXiv preprint arXiv:14093899* 2014.

8. Dongyi He, Wang Jiucun, Yi Lin, Guo Xinjian, Guo Shicheng, Guo Gang, Tu Wenzhen, Wu Wenyu, Yang Li, Xiao Rong: **Association of the HLA-DRB1 with Scleroderma in Chinese Population.***PLoS One* 2014, **9:**e106939.

9. Yangxing Zhao, Zhou Huafu, Ma Kelong, Sun Jinfeng, Feng Xu, Geng Junfeng, Gu Jun, Wang Wei, Zhang Hongyu, He Yinghua: **Abnormal methylation of seven genes and their associations with clinical characteristics in early stage non-small cell lung cancer.***Oncol Lett* 2013, **5:**1211-1218.

10. Xiaotian Wang, Wang Lei, Guo Shicheng, Bao Yang, Ma Yanyun, Yan Fengyang, Xu Kuan, Xu Zhiyun, Jin Li, Lu Daru: **Hypermethylation reduces expression of tumor-suppressor PLZF and regulates proliferation and apoptosis in non-small-cell lung cancers.***The FASEB Journal* 2013, **27:**4194-4203.

11. Jiucun Wang, Yang Yajun, Guo Shicheng, Chen Yulin, Yang Chengde, Ji Hengdong, Song Xinqiang, Zhang Feng, Jiang Zhengwen, Ma Yanyun: **Association between copy number variations of HLA-DQA1 and ankylosing spondylitis in the Chinese Han population.***Genes and immunity* 2013, **14:**500-503.

12. Shenglong Lin, Pan Lili, Guo Shicheng, Wu Junjie, Jin Li, Wang Jiu-Cun, Wang Shaoyuan: **Prognostic role of microRNA-181a/b in hematological malignancies: a meta-analysis.***PLoS One* 2013, **8:**e59532.

13. Yangxing Zhao, Guo Shicheng, Sun Jinfeng, Huang Zhaohui, Zhu Tongyu, Zhang Hongyu, Gu Jun, He Yinghua, Wang Wei, Ma Kelong: **Methylcap-seq reveals novel DNA methylation markers for the diagnosis and recurrence prediction of bladder cancer in a Chinese population.***PLoS One* 2012, **7:**e35175.

14. Junjie Wu, Liu Jie, Zhou Yuhao, Ying Jun, Zou Houdong, Guo Shicheng, Wang Lei, Zhao Naiqing, Hu Jianjun, Lu Daru: **Predictive value of XRCC1 gene polymorphisms on platinum-based chemotherapy in advanced non–small cell lung cancer patients: a systematic review and meta-analysis.***Clinical Cancer Research* 2012, **18:**3972-3981.

15. Jie Wu, Wu Junjie, Zhou Yuhao, Zou Houdong, Guo Shicheng, Liu Jie, Lu Liwen, Xu Hao: **Quantitative assessment of the variation in IGF2BP2 gene and type 2 diabetes risk.***Acta Diabetologica* 2011**:**1-11.

16. Yinghua He, Cui Ying, Wang Wei, Gu Jun, Guo Shicheng, Ma Kelong, Luo Xiaoying: **Hypomethylation of the hsa-miR-191 locus causes high expression of hsa-mir-191 and promotes the epithelial-to-mesenchymal transition in hepatocellular carcinoma.***Neoplasia* 2011, **13:**841-IN823.

17. Xy Zhou, Sun Jf, He Yh, Zhang Hy, Yu J, Guo Sc, Cai Y, Hu Xc, Zhu Jd: **Correlation of the methylation status of CpG islands in the promoter region of 10 genes with the 5-Fu chemosensitivity in 3 breast cancer cell lines].***Zhonghua zhong liu za zhi [Chinese journal of oncology]* 2010, **32:**328.

18. Hui Xiang, Zhu Jingde, Chen Quan, Dai Fangyin, Li Xin, Li Muwang, Zhang Hongyu, Zhang Guojie, Li Dong, Dong Yang: **Single base-resolution methylome of the silkworm reveals a sparse epigenomic map.***Nat Biotechnol* 2010, **28:**516-520.

19. Yingrui Li, Zhu Jingde, Tian Geng, Li Ning, Li Qibin, Ye Mingzhi, Zheng Hancheng, Yu Jian, Wu Honglong, Sun Jihua: **The DNA methylome of human peripheral blood mononuclear cells.***PLoS Biol* 2010, **8:**e1000533.

20. Jinxia Ao, Gao Xuejun, Qiu Youwen, Guo Shicheng: **Real-time quantitative PCR and the application in the detection of genetically modified plants [J].***Journal of Northeast Agricultural University* 2009, **6:**033.

21. Jin-Xia Ao, Gao Xue-Jun, Qu Bo, Yuan Xiao-Han, Liu Ying, Qiu You-Wen, Guo Shi-Cheng: **Construction of a standard reference plasmid for detecting exogenous genes in transgenic soybean, maize and rice [J].***Journal of China Agricultural University* 2008, **6:**005.