# Shicheng Guo

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**Education**

2009-2011 Ph.D School of life sciences, Fudan University, Shanghai, China

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

**Present Position**

2017-now, Postdoc at Center for Human Genetics, Marshfield Clinic Research Institute, Marshfield, WI

**Experience**

2014-2017, Postdoc at Department of bioengineering, University of California, San Diego, CA

2013-2014, Research assistant at the University of Texas Health Science Center at Houston, TX

2012-2014, Visiting Scholar at the University of Texas Health Science Center at Houston, Houston, TX

2012-2013, Internship in the CAS-MPG Partner Institute for Computational Biology, Shanghai, China

2011-2014, 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*

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

*Methods for quantitative deconvolution and detection of heterogeneous nucleic acid sample, US(review).*

**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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**Publications[**[**1-47**](#_ENREF_1)**]**

1. Pu, W., C. Wang, S. Chen, D. Zhao, Y. Zhou, Y. Ma, Y. Wang, C. Li, Z. Huang and L. Jin, Targeted bisulfite sequencing identified a panel of DNA methylation-based biomarkers for esophageal squamous cell carcinoma (ESCC). Clinical Epigenetics, 2017. 9(1): p. 129.

2. Lei, Y., L. Liu, S. Zhang, S. Guo, X. Li, J. Wang, B. Su, Y. Fang, X. Chen and H. Ke, Hdac7 promotes lung tumorigenesis by inhibiting Stat3 activation. Molecular cancer, 2017. 16(1): p. 170.

3. He, D., J. Liu, Y. Hai, Q. Zhu, Y. Shen, S. Guo, W. Zhang and X. Zhou, Increased DOT1L in synovial biopsies of patients with OA and RA. Clinical rheumatology, 2017: p. 1-6.

4. Guo, S., Q. Zhu, T. Jiang, R. Wang, Y. Shen, X. Zhu, Y. Wang, F. Bai, Q. Ding and X. Zhou, Genome-wide DNA methylation patterns in CD4+ T cells from Chinese Han patients with rheumatoid arthritis. Modern rheumatology, 2017. 27(3): p. 441-447.

5. Guo, S., R. Wang, T. Jiang, F. Bai, Q. Ding, Y. Ma, Y. Wang, Y. Yang, X. Wang and L. Tan, Alterations and diagnosis potential of serum lipid profiles in rheumatoid arthritis patients. INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL PATHOLOGY, 2017. 10(3): p. 3503-3509.

6. Guo, S., D. Diep, N. Plongthongkum, H.-L. Fung, K. Zhang and K. Zhang, Identification of methylation haplotype blocks aids in deconvolution of heterogeneous tissue samples and tumor tissue-of-origin mapping from plasma DNA. Nature Genetics, 2017. 49(4): p. 635-642.

7. Geng, X., W. Pu, Y. Tan, Z. Lu, A. Wang, L. Tan, S. Chen, S. Guo, J. Wang and X. Chen, Quantitative assessment of the diagnostic role of FHIT promoter methylation in non-small cell lung cancer. Oncotarget, 2017. 8(4): p. 6845.

8. Fan, L., L. Chen, X. Ni, S. Guo, Y. Zhou, C. Wang, Y. Zheng, F. Shen, V.K. Kolluri and M. Muktiali, Genetic variant of miR-4293 rs12220909 is associated with susceptibility to non-small cell lung cancer in a Chinese Han population. PloS one, 2017. 12(4): p. e0175666.

9. Ding, W., W. Pu, L. Wang, S. Jiang, X. Zhou, W. Tu, L. Yu, J. Zhang, S. Guo and Q. Liu, Genome-wide DNA methylation analysis in systemic sclerosis reveals hypomethylation of interferon-associated genes in CD4+ and CD8+ T cells. Journal of Investigative Dermatology, 2017.

10. Zhang, X., J. Zhang, R. Wang, S. Guo, H. Zhang, Y. Ma, Q. Liu, H. Chu, X. Xu and Y. Zhang, Hypermethylation reduces the expression of PNPLA7 in hepatocellular carcinoma. Oncology letters, 2016. 12(1): p. 670-674.

11. Suzuki, K., Y. Tsunekawa, R. Hernandez-Benitez, J. Wu, J. Zhu, E.J. Kim, F. Hatanaka, M. Yamamoto, T. Araoka and Z. Li, In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration. Nature, 2016. 540(7631): p. 144-149.

12. Shen, F., J. Chen, S. Guo, Y. Zhou, Y. Zheng, Y. Yang, J. Zhang, X. Wang, C. Wang and D. Zhao, Genetic variants in miR-196a2 and miR-499 are associated with susceptibility to esophageal squamous cell carcinoma in Chinese Han population. Tumor Biology, 2016. 37(4): p. 4777-4784.

13. Pu, W., X. Geng, S. Chen, L. Tan, Y. Tan, A. Wang, Z. Lu, S. Guo, X. Chen and J. Wang, Aberrant methylation of CDH13 can be a diagnostic biomarker for lung adenocarcinoma. Journal of Cancer, 2016. 7(15): p. 2280.

14. Guo, S., Y. Li, Y. Wang, H. Chu, Y. Chen, Q. Liu, G. Guo, W. Tu, W. Wu and H. Zou, Copy Number Variation of HLA-DQA1 and APOBEC3A/3B Contribute to the Susceptibility of Systemic Sclerosis in the Chinese Han Population. The Journal of rheumatology, 2016. 43(5): p. 880-886.

15. Zhang, P., J. Wang, T. Lu, X. Wang, Y. Zheng, S. Guo, Y. Yang, M. Wang, V.K. Kolluri and L. Qiu, miR-449b rs10061133 and miR-4293 rs12220909 polymorphisms are associated with decreased esophageal squamous cell carcinoma in a Chinese population. Tumor Biology, 2015. 36(11): p. 8789-8795.

16. Wang, J., J. Li, J. Gu, J. Yu, S. Guo, Y. Zhu and D. Ye, Abnormal methylation status of FBXW10 and SMPD3, and associations with clinical characteristics in clear cell renal cell carcinoma. Oncology letters, 2015. 10(5): p. 3073-3080.

17. Pan, L.-l., Y.-m. Huang, M. Wang, X.-e. Zhuang, D.-f. Luo, S.-c. Guo, Z.-s. Zhang, Q. Huang, S.-l. Lin and S.-y. Wang, 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(2): p. 218-223.

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