

Wu Qiang



Position: Associate Professor

Faculty: The State Key Laboratory of Quality

Research in Chinese Medicine

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Address: Room 704a, Block H, Macau University of
Science and Technology, Avenida Wai Long,
Taipa, Macau

Research areas:

Stem Cell Biology, Epigenetics, Cancer Biology, Gene regulation

Teaching experience:

Epigenetics and Chromatin Biology, Stem Cell Biology, Experimental Biochemistry,
Laboratory Techniques in Life Sciences, Techniques in Biomedical Research, Stem Cells
and Regenerative Medicine

Academic Qualifications

1986-1990 B. Agri. Department of Horticulture, Huazhong Agricultural University
1992-1995 M.Sc. Department of Genetics, Wuhan University
1998-2003 Ph.D Department of Biological Sciences, National University of Singapore

Employment History

2017-present Associate professor, Macau University of Science and Technology
2009-2016 Assistant professor, Department of Biochemistry, National University of
Singapore
2006-2008 Research associate, The Gurdon Institute, University of Cambridge
(Advisor: Prof Magdalena Zernicka-Goetz)
2003-2006 Postdoctoral fellow, Genome Institute of Singapore
(Advisor: Prof Ng Huck Hui)
2002-2003 Research assistant, National University of Singapore

(Supervisor: Dr. Philippa Melamed)

1996-1998 Administrator, Wuhan Science and Technology Committee, China

1995-1996 Assistant Lecturer, Tongji Medical University, Wuhan, China

1990-1992 Administrator, Qingling Horticultural Farm, Wuhan, China

Editorial Services

Academic editor of *PLoS ONE* (July 2010-present)

Guest editor of *Stem Cells International* (2015)

Lead guest editor of *Stem Cells International* (2016-2017)

Membership in Professional Societies

Member of the International Society for Stem Cell Research

Member of the Stem Cell Society Singapore

Reviewing Services

Referee for *Nucleic Acids Research*, *Nature Communications*, *Oncotarget*, *Stem Cells*, *Stem Cell Research*, *PLoS ONE*, *Stem Cells & Development*, *Stem Cell Reviews and Reports*, *Experimental Cell Research*, *International Journal of Biochemistry & Cell Biology*, *Journal of Genetics and Genomics*, *BMC Medical Genetics*.

Grant reviewer for Medical Research Council UK grants, China National Natural Science Foundation, Singapore Biomedical Research Council Grants, The Chinese University of Hong Kong, National University Health System (Seed grants, Bench to Bedside grants, Aspiration grants), National University of Singapore Academic Research Grants,.

Publications

1. Yu S, Ma H, Ow JR, Goh Z, Chiang CM, Yang H[#], Loh YH[#] and **Wu Q[#]**. Zfp553 is essential for maintenance and acquisition of pluripotency. ***Stem Cells and Development*** 2016 Jan 1;25(1):55-67..

2. Ma H, Ow JR, Tan BC, Goh Z, Feng B, Loh YH, Fedele M[#], Li H[#] and **Wu Q[#]**. The dosage of Patz1 modulates reprogramming process. ***Scientific Reports*** 2014 Dec 17;4:7519.

3. Yang W, Lee YH, Jones AE, Woolnough JL, Zhou D, Dai Q, **Wu Q**, Giles KE, Townes TM and Wang H. The histone H2A deubiquitinase Usp16 regulates embryonic stem cell gene expression and lineage commitment. ***Nature Communications*** 2014 May 2;5:3818.

4. Ow JR, Ma H, Jean A, Lee YH, Chong YM, Soong R, Fu XY, Yang H[#] and **Wu Q[#]**. Patz1 regulates embryonic stem cell identity. ***Stem Cells and Development*** 2014 23 (10):1062-1073..

5. Ma H, Ng HM, Teh X, Li H, Lee YH, Chong YM, Loh YH, Collins JJ, Feng B, Yang H[#] and **Wu Q[#]**. Zfp322a regulates mouse ES cell pluripotency and enhances reprogramming efficiency. *PLoS Genetics* 2014 10(2): e1004038. .
6. Do DV, Ueda J, Messerschmidt DM, Lorthongpanich C, Zhou Y, Feng B, Guo G, Lin PJ, Hossain MZ, Zhang W, Moh A, **Wu Q**, Robson P, Ng HH, Poellinger L, Knowles BB, Solter D and Fu XY. A genetic and developmental pathway from STAT3 to the OCT4-NANOG circuit is essential for maintenance of ICM lineages in vivo. *Genes & Development* 2013 27:1378-1390.
7. Ma H, Ow JR, Chen X and **Wu Q[#]**. With or without them: essential roles of cofactors in ES Cells. *Journal of Stem Cell Research & Therapy* 2012 S10:006.
8. Lee YH, Ma H, Tan TZ, Ng SS, Soong R, Mori S, Fu XY, Zernicka-Goetz M and **Wu Q[#]**. Protein arginine methyltransferase 6 regulates embryonic stem cell identity. *Stem Cells and Development* 2012 21(14):2613-2622.
9. **Wu Q[#]** and Ng HH[#]. Mark the transition: chromatin modifications and cell fate decision. *Cell Research* 2011 21(10):1388-1390.
10. Lee YH and **Wu Q[#]**. Chromatin regulation landscape of embryonic stem cell identity. *Bioscience Reports* 2011 31(2): 77-86.
11. **Wu Q^{*}**, Bruce AW^{*}, Jedrusik A, Ellis PD, Andrews RM, Langford CF, Glover DM and Zernicka-Goetz M.

Wu, Q, "Histone arginine methylation regulates ES cell identity". The 13th International Symposium, Society of Chinese Bioscientists in America. (27 Jul 2011, Guangzhou, China).

Wu, Q, "Histone arginine methylation regulates pluripotency". Histone arginine methylation regulates pluripotency (2 July 2009, CSI, NUS, Singapore).