

## CURRICULUM VITAE

**NAME:** Qing Zhou Ph.D.  
**PRESENT TITLE:** Assistant Professor-Research  
**ADDRESS:** Department of Microbiology and Molecular Genetics,  
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### **CITIZENSHIP:**

China

### **UNDERGRADUATE EDUCATION:**

Ludong University, Yantai, China  
Bachelor of Science in Biology, 2001

### **GRADUATE EDUCATION:**

Zhejiang University, Hangzhou, China  
Ph.D. in Biophysics, 2007

### **POSTGRADUATE TRAINING:**

Research Fellow, 2007-2011  
National University of Singapore, Singapore  
Research Fellow, 2012-2017  
The University of Texas Health Science Center at Houston, Houston, USA

### **ACADEMIC APPOINTMENTS:**

Assistant Professor-Research, 2017.4 –  
Department of Microbiology and Molecular Genetics,  
McGovern Medical School,  
The University of Texas Health Science Center at Houston

### **JOURNAL REVIEW:**

Journal of Cell Science  
Parasitology Research  
Biochemical Journal  
PLoS ONE

## HONORS AND AWARDS:

Para Tryp Travel Award, 2014

Dean's Excellence in Research Award Finalist, 2016

## PUBLICATIONS:

1. **Qing Zhou**, Xinjue Zhang, Hong Xu, Bujin Xu, Yuejin Hua. 2006. RadA: a protein involved in DNA damage repair processes of *Deinococcus radiodurans* R1. *Chinese Science Bulletin*, 51: 2993-2999.
2. **Qing Zhou**, Weiwei Chen, Xinjue Zhang, Hong Xu, Bujin Xu, Yuejin Hua. 2007. Characterization of the double mutant of *Deinococcus radiodurans* *lexA1* and *lexA2*. *Chinese Science Bulletin*, 52: 1046-1052.
3. **Qing Zhou**, Xinjue Zhang, Hong Xu, Bujin Xu, Bing Yuejin Hua. 2007. A new role of *Deinococcus radiodurans* RecD in antioxidant pathway. *FEMS Microbiology Letters*, 271: 118-125.
4. **Qing Zhou**, Ladan Gheiratmand, Yixin Chen, Teck Kwang Lim, Jun Zhang, Shaowei Li, Ningshao Xia, Binghai Liu, Qingsong Lin, Cynthia Y. He. 2010. A comparative proteomic analysis reveals a new bi-lobe protein required for bi-lobe duplication and cell division in *Trypanosoma brucei*. *PLoS ONE*, 5: e9660.
5. **Qing Zhou**, Binghai Liu, Ying Sun, Cynthia Y. He. 2011. A coiled-coil and C2 domain-containing protein is required for FAZ assembly and cell morphology in *Trypanosoma brucei*. *Journal of Cell Science*, 124:3848-3858. (**Highlighted article**)
6. Ladan Gheiratmand, Anais Brasseur, **Qing Zhou**, Cynthia Y. He. 2013. Biochemical characterization of the bi-lobe reveals a continuous structural network linking the bilobe to other single-copied organelle in *Trypanosoma brucei*. *Journal of Biological Chemistry*, 288: 3489-3499.
7. **Qing Zhou**, Huiqing Hu, Ziyin Li. 2014. New insights into the molecular mechanisms of mitosis and cytokinesis in trypanosomes. *International Review of Cell and Molecular Biology*, 308: 127-166. (**Invited review**)

8. Anais Brasseur, Shima Bayat, Xiu Ling Chua, Yu Zhang, **Qing Zhou**, Boon Chuan Low, Cynthia Y. He. 2014. The bi-lobe-associated LRRP1 regulates Ran activity in *Trypanosoma brucei*. *Journal of Cell Science*, 127: 4846-4856.
9. **Qing Zhou**, Huiqing Hu, Cynthia Y. He, Ziyin Li. 2015. Assembly and maintenance of the flagellum attachment zone filament in *Trypanosoma brucei*. *Journal of Cell Science*, 128: 2361-2372. (**Highlighted article**)
10. Huiqing Hu, Yi Liu, **Qing Zhou**, Sara Siegel, Ziyin Li. 2015. The centriole cartwheel protein SAS-6 in *Trypanosoma brucei* is required for pro-basal body biogenesis and flagellum assembly. *Eukaryotic Cell*, 14: 898-907. (**Highlighted article**)
11. **Qing Zhou**, Ziyin Li. 2015. The gamma tubulin complex in *Trypanosoma brucei*: subunit interdependence and essential roles in maintaining axonemal central-pair protein stability. *Molecular Microbiology*, 98: 667-680.
12. Huiqing Hu, **Qing Zhou**, Ziyin Li. 2015. A novel basal body protein that is a Polo-like kinase substrate is required for basal body segregation and flagellar adhesion in *Trypanosoma brucei*. *Journal of Biological Chemistry*, 290: 25012-25022.
13. Huiqing Hu, **Qing Zhou**, Ziyin Li. 2015. SAS-4 protein in *Trypanosoma brucei* controls life cycle transitions by modulating the length of the flagellum attachment zone filament. *Journal of Biological Chemistry*, 290: 30453-30463.
14. **Qing Zhou**, Jianhua Gu, Zhao-Rong Lun, Francisco J. Ayala, Ziyin Li. 2016. Two distinct cytokinesis pathways drive trypanosome cell division initiation from opposite cell ends. *Proceedings of the National Academy of Sciences of the United States of America*, 113: 3287-3292. (**Cover article and recommended by Faculty of 1000**)
15. **Qing Zhou**, Ziyin Li. 2016. A backup cytokinesis pathway in *Trypanosoma brucei*. *Cell Cycle*, 15: 2379-2380.
16. **Qing Zhou**, Huiqing Hu, Ziyin Li. 2016. An EF-hand-containing protein in *Trypanosoma brucei* regulates cytokinesis initiation by maintaining the stability of the cytokinesis initiation factor CIF1. *Journal of Biological Chemistry*, 291: 14395-14409.

17. Hung Duang Dang, **Qing Zhou**, Veronica W. Rowlett, Huiqing Hu, Kyu Joon Lee, William Margolin, Ziyin Li. 2017. Proximity interactions among basal body components in *Trypanosoma brucei* identify novel regulators of basal body biogenesis and inheritance. *MBio*, 8: e02120-16.
18. Huiqing Hu, **Qing Zhou**, Xianxian Han, Ziyin Li. 2017. CRL4<sup>WDR1</sup> controls polo-like kinase protein abundance to promote bilobe duplication, basal body segregation and flagellum attachment in *Trypanosoma brucei*. *PLoS Pathogens*, 13: e1006146. (Cover article)
19. Zongbin Liu, Xin Han, **Qing Zhou**, Rui Chen, Shelby Fruge, Myeong Chan Jo, Yuan Ma, Ziyin Li, Kenji Yokoi, Lidong Qin. 2017. Integrated microfluidic system for gene silencing and cell migration. *Advanced Biosystems*, in press.

**PRESENTATIONS:**

2013: A novel component of the flagellum attachment zone (FAZ) and its role in FAZ assembly, cytokinesis, and cell morphogenesis in *Trypanosoma brucei*. Talk, Kinetoplastid Molecular Cell Biology Meeting, Woods Hole, MA, USA

2014: Assembly and maintenance of flagellum attachment zone filament in *Trypanosoma brucei*. Poster, Molecular Parasitology Meeting, Woods Hole, USA

2016: Delineating the regulatory pathway for cytokinesis in *Trypanosoma brucei*. Poster, Molecular Parasitology Meeting, Woods Hole, MA, USA

2017: Dissecting the signaling pathway governing DNA damage-induced G2/M cell cycle checkpoint in *Trypanosoma brucei*. Poster, Kinetoplastid Molecular Cell Biology Meeting, Woods Hole, MA, USA