

## Zepeng Mu

Mobile: (773) 620-4581

E-mail: [zepengmu@uchicago.edu](mailto:zepengmu@uchicago.edu)

Location: 5841 S. Ellis Ave., Office N406, Chicago, IL, 60637

Website: [zepengmu.netlify.app](http://zepengmu.netlify.app)

### EDUCATION

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<b>09/2014 - 07/2018</b>	<b>Bachelor of Science in Life Sciences</b> University of Chinese Academy of Sciences, Beijing, China
<b>10/2018 - Present</b>	<b>Ph.D. in Genetics</b> The University of Chicago, Chicago, IL, USA

### PUBLICATIONS

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**The Impact of cell-type and context-dependent regulatory variants on human immune traits.**

**Zepeng Mu**, Wei Wei, Benjamin J. Fair, Jinlin Miao, Ping Zhu, and Yang I. Li.

*Genome Biology*. (2021)

**Alignment of single-cell RNA-seq samples without overcorrection using kernel density matching.**

Mengjie Chen, Qi Zhan, **Zepeng Mu**, Lili Wang, Zhaohui Zheng, Jinlin Miao, Ping Zhu, and Yang I. Li.

*Genome Research*. (2021)

**Alternative polyadenylation mediates genetic regulation of gene expression.**

Briana E. Mittleman, Sebastian Pott, Shane Warland, Tony Zeng, Zepeng Mu, Mayher Kaur, Yoav Gilad, and Yang I. Li.

*Elife*. (2020)

**Haplotype-resolved diverse human genomes and integrated analysis of structural variation.**

Peter Ebert, Peter A Audano, Qihui Zhu, Bernardo Rodriguez-Martin, [...46 others...], **Zepeng Mu** ... Evan E Eichler.

*Science*. (2021)

**Clinical and Genome-Wide Analysis of Serum Platinum Levels after Cisplatin-Based Chemotherapy.**

Trendowski MR, El Charif O, Ratain MJ, Monahan P, **Mu Z**, Wheeler HE, Dinh PC, Feldman DR, ArdeshirRouhaniFard S, Hamilton R, Vaughn DJ, Fung C, Kollmannsberger C, Mushiroda T, Kubo M, Hannigan R, Strathmann FG, Einhorn LH, Fossa SD, Travis LB, Dolan ME

*Clinical Cancer Research*. (2019)

**A genetically engineered *Escherichia coli* that senses and degrades tetracycline antibiotic residue.**

**Mu Z**, Zou Z, Yang Y, Wang W, Xu Y, Huang J, Cai R, Liu Y, Mo Y, Wang B, Dang Y, Li Y, Liu Y, Jiang Y, Tan Q, Liu X, Hu C, Li H, Wei S, Lou C, Yu Y, Wang J.

*Synthetic and Systems Biotechnology*. (2018)

### RESEARCH SKILLS

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<b>Computational</b>	QTL mapping, scRNA-seq/scATAC-seq analysis, LaTeX
<b>Experimental</b>	CUT&Tag, Molecular cloning, Luciferase reporter assay, Cell culturing

## RESEARCH EXPERIENCE

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- 08/2017 - 07/2018** Pathogenesis of risk loci associated with type 2 diabetes  
Advisor: Dr. Changqing Zeng, Beijing Institute of Genomics, Chinese Academy of Sciences
- 10/2017 – 03/2018** Genome-wide Association Study of cytotoxicity of cisplatin-related chemotherapy agents  
Advisor: Dr. M. Eileen Dolan, Department of Medicine, University of Chicago
- 11/2016 - 07/2017** Biophysics of bacteriorhodopsin NdR2 as a novel sodium ion pump  
Advisor: Dr. Deliang Chen, College of Life Sciences, University of Chinese Academy of Sciences
- 03/2016 - 11/2016** Characterization of bacteria Toxin-Antitoxin (TA) systems for a kill-switch in engineered E. coli  
Advisor: Dr. Chunbo Lou, Institute of Microbiology, Chinese Academy of Sciences

## AWARDS AND HONORS

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- 07/2018** Beijing Outstanding Graduate Thesis
- 07/2018** Beijing Honored College Graduates
- 11/2016** Silver Medal, international Genetically Engineered Machine (iGEM) Competition (Boston)
- 11/2016** First-Class Scholarship, University of Chinese Academy of Sciences