

# TING ZHOU

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## EDUCATION

PhD, Biochemistry, Institute of Biophysics, Chinese Academy of Science, Beijing, China 2007 - 2014  
BS, Biological Sciences, China Agricultural University, Beijing, China 2002 - 2006

## RESEARCH EXPERIENCE

Assistant Professor 2021.06 – Now  
School of Life Science, Westlake University, Hang Zhou, Zhe Jiang  
Topic: **Cytokine mediated immune regulation and cytokine engineering for immunotherapy**

Postdoctoral Associate with Aaron Ring 2016.11 – 2021.04  
Immunobiology, Yale University School of Medicine, New Haven, CT  
Topic: Engineering cytokine for next generation cancer immunotherapy

- Applied bioinformatical, biochemical and immunological methods to identify unique cytokine target in tumor microenvironment
- Applied synthetic biology methods including directed evolution and yeast display to engineer cytokine for designed purpose
- Characterized the efficacy and immune mechanisms of engineered cytokine in transgenic mouse strain and syngeneic tumor model

Postdoctoral Associate with Anna Marie Pyle 2014.9 – 2016.11  
Molecular, Cellular and Developmental Biology, Yale University, New Haven, CT  
Topic: Characterization of HCV (JFH-1) helicase NS3 in viral replication and assembly

- Developed quantitative methods to dissect helicase binding and unwinding kinetics
- Characterized helicase-substrate crystal structures to elucidate molecular mechanism

Graduate research with Rui-Ming Xu 2007.9 – 2014.9  
Institute of Biophysics, Chinese Academy of Science, Beijing, China  
Topic: Molecular mechanism of hydroxymethylcytosine recognized by the SRA domain of UHRF2

- Applied X-ray crystallography to study epigenetic marker reader-substrate molecular mechanism
- Developed multiple biochemical assays to unveil the reader versatility to modified DNA

## PEER-REVIEWED PUBLICATIONS

1. **Ting Zhou\***, William Damsky\*, Orr-El Weizman\*, Meaghan K. McGearry, K. Patricia Hartmann, Connor E. Rosen, Ruaidhri Jackson, Suzanne Fischer, Jun Wang, Miguel F. Sanmamed, Richard A. Flavell, Marcus W. Bosenberg, Aaron M. Ring. IL-18BP is a secreted immune checkpoint and barrier to IL-18 immunotherapy. *Nature*, 2020. (\* Co-first author)
2. **Ting Zhou\***, Tina Tianjiao Su\*, Tenny Mudianto, Jun Wang; Immune asynchrony in COVID-19 pathogenesis and potential immunotherapies. *J Exp Med*, 2020. (\* Co-first author)
3. Eric Y Wang, Tianyang Mao, Jon Klein, Yile Dai, John D Huck, Feimei Liu, Neil S Zheng, **Ting Zhou**, ..., Akiko Iwasaki, Aaron M Ring. Diverse functional autoantibodies in patients with COVID-19. *Nature*. 2021.
4. Adam Sateriale, Jodi A Gullicksrud, Julie B Engiles, Briana I McLeod, Emily M Kugler, Jorge Henao-Mejia, **Ting Zhou**, Aaron M Ring, Igor E Brodsky, Christopher A Hunter, Boris Striepen. The intestinal parasite *Cryptosporidium* is controlled by an enterocyte intrinsic inflammasome that depends on NLRP6. *PNAS*, 2021.

5. Abigail Jarret, Ruaidhrí Jackson, Coco Duizer, Marc E. Healy, Jun Zhao, Joseph M. Rone, Piotr Bielecki, Esen Sefik, Manolis Roulis, Tyler Rice, Kisha N. Sivanathan, **Ting Zhou**, ..., Richard A. Flavell. Enteric Nervous System-Derived IL-18 Orchestrates Mucosal Barrier Immunity. *Cell*, 2020.
6. Jun Wang, Miguel F. Sanmamed, Ila Datar, Tina Tianjiao Su, Lan Ji, Jingwei Sun, Ling Chen, Yusheng Chen, Gefeng Zhu, Weiwei Yin, Linghua Zheng, **Ting Zhou**, ..., Lieping Chen. Fibrinogen-like Protein 1 Is a Major Immune Inhibitory Ligand of LAG-3. *Cell*, 2019.
7. Wenlong Du, Qiang Dong, Zhuqiang Zhang, Baodong Liu, **Ting Zhou**, Rui-ming Xu, Hailin Wang, Bing Zhu, and Yingfeng Li. Stella protein facilitates DNA demethylation by disrupting the chromatin association of the RING finger-type E3 ubiquitin ligase UHRF1. *J. Biol. Chem*, 2019.
8. **Ting Zhou**, Xiaoming Ren, Rebecca L. Adams, Anna Marie Pyle. NS3 from Hepatitis C Virus Strain JFH-1 Is an Unusually Robust Helicase That Is Primed to Bind and Unwind Viral RNA. *Journal of Virology*, 2017.
9. **Ting Zhou**, Jun Xiong, Mingzhu Wang, Na Yang, Jiemin Wong, Bing Zhu, Rui-Ming Xu. Structural Basis for Hydroxymethylcytosine Recognition by the SRA Domain of UHRF2. *Molecular Cell*, 2014.

## PATENT

Interleukin-18 variants and methods of use (US20190070262A1). Inventors: Aaron Ring, **Ting Zhou** and Suzanne Fischer.

## HONORS & AWARDS

National Natural Science Fund for Excellent Young Scientists (海外优青)	2022
Zhejiang Province Recruitment Program of Global Experts (浙江省千人 - 创新长期)	2022
IMMUNO-ONCOLOGY Young Investigator Forum Postdoctoral Researcher Award	2019
IMMUNO-ONCOLOGY Young Investigator Forum Travel Award	2019
Research Excellence Prize of Yale Cancer Center Annual Colloquium	2018
'Best Graduate' Award, Institute of Biophysics, Chinese Academy of Sciences	2014
Japan Society for Promoting Science (JSPS) Fellow	2013
'Excellent Student' Award of Institute of Biophysics	2011
'Outstanding Student Leader' Award of Institute of Biophysics	2011

## INVITED & SELECTED TALKS

American Association for Cancer Research (AACR) annual meeting, San Diego, CA	04/2020
Immuno-oncology Young Investigator Forum (IOYIF/SITC), Houston, TX	04/2019
Yale Immunobiology Seminar, New Haven, CT	09/2018
Yale Cancer Center annual colloquium, New Haven, CT	05/2018
Yale Cancer Immunology working group seminar, New Haven, CT	09/2017
Yale Molecular, Cellular and Developmental Biology Seminar, New Haven, CT	04/2016
Cold Spring Harbor Asia Conference, Suzhou, China	05/2014
The 5 <sup>th</sup> HOPE meeting, Tokyo, Japan	02/2013