Yongbo Ding

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Department of Biology, JHU School of Arts and Sciences, Baltimore, MD 21218, U.S.A.

Education

University of Chinese Academy of Sciences Shanghai, P.R. China
Ph.D. in Biochemistry and Molecular biology Sep. 2015 – Jan. 2022

Yunnan University Kunming, P.R. China
B.S. in Biological science Sep. 2011 – Jun. 2015

Research Experience

Department of Biology, JHU School of Arts and Sciences. Baltimore, U.S.A.
Postdoctoral Fellow Apr. 2024 – Present

- Investigate the structure and function of MCE transporters in mycobacteria

Department of Cell Biology, NYU School of Medicine New York, U.S.A.
Postdoctoral Associate Jun. 2023 – Mar.2024

- Investigate the structure and function of MCE transporters in mycobacteria

Department of Molecular Biology and Genetics, Cornell University Ithaca, U.S.A.
Postdoctoral Associate Jul. 2022 – May. 2023

- Determined different functional states of a novel Type I CRISPR system, Cas5NHN cascade

Center for Excellence in Molecular Cell Science, CAS. Shanghai, P.R. China
Graduate Researcher 2015 – Jan. 2022

- Designed and executed new strategies to reconstitute and purify human telomerase holoenzyme RNP complex
- Use electron microscopy to study structure and dynamics of macro-complexes
- Screened a library for novel protein that interact with a known bait by Yeast-Two-Hybrid system
- Reconstituted and purified protein complex in various expression system including mammalian cell, insect cell and *E.coli.*
- Generated Knock-in mammalian cell lines and did genetical operation in *Tetrahymena*

Kunming Institute of Zoology, CAS Kunming, P.R. China
Summer Undergraduate Researcher Jun. – Sep. 2014

- Studied cancer biology especially in breast cancer
- Identification of mouse genotypes

Skills and Research Interests

Computer/Technical: Relion, CryoSPARC, Linux, Pymol, SnapGene, Chimera, Coot, Graphpad Prism, Adobe Photoshop & Illustrator
Language: Chinese (Native), English (Professional working proficiency)
Research Interests: Chromatin, Transmembrane protein, RNP complex, Virulence factor

PUBLICATION

Wan, F.[#], **Ding, Y.[#]**, Zhang, Y.[#], Wu, Z.[#], Li, S., Yang, L., Yan, X., Lan, P., Li, G., Wu, J., and Lei, M. Zipper head mechanism of telomere synthesis by human telomerase. *Cell Research* **31**, 1275-1290 (2021).