

Xianhe Zhang

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Education

B.S. in Biology

University of Wisconsin-Madison

Aug 2022 - May 2023

B.S. in Biology

University of North Carolina-Chapel Hill

Aug 2023 - Present

Research Experience

Undergraduate Research Intern

Institute of Microbiology, Chinese Academy of Sciences

May 2021 - Sept 2021

- Conducted experiments on cell cultivation and cytotoxicity.
- Developed pseudo-virus vectors for research of SARS-CoV-2 genome.
- Synthesized novel small molecule drug to inhibit SARS-CoV-2 Main protease.

Undergraduate Research Intern

Institute of Biophysics, Chinese Academy of Sciences

May 2023 - Aug 2023

- Utilized novel method to establish full-synthesis of Xanthone.
- Presented research to Institute researchers.
- Synthesized a novel bio-luminescent reagent 8pyDTZ.

Undergraduate Research Assistant

School of Veterinary Medicine, University of Wisconsin-Madison

Oct 2022 - May 2023

- Conducted experiments on mice tissue structure.
- Studied micro-RNA miR-29a/b1 to show relations with abnormal mice bladder function.

Student Research Assistant

School of Pharmacy, University of North Carolina-Chapel Hill

Oct 2023 - Present

- Full synthesis of multiple glycerol-derivatives to study fat metabolism.
- Synthesis of various Biomarkers.

Publications

Skills

- **Laboratory Techniques:** PCR, Western Blot, Chromatography, HPLC, tissue sectioning
- **Software:** R, Python, MATLAB, HTML/CSS, web development
- **Analytical Skills:** Data Analysis, Statistical Modeling, Bioinformatics

Honors and Awards

References

Dr. Qisheng Zhang

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Dr. Zunyi Wang

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