YING ZHOU

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EDUCATION

University of Science and Technology of China *Sept 2021 - Present*
Expected to obtain B. S. in Biology in June 2025 *Junior Undergraduate*
School of Life Sciences

ACADEMIC PERFORMANCE

All Curriculum GPA: 3.18/4.0 **Core Curriculum GPA:** 3.70/4.0
All Curriculum Weighted Score: 81.88/100 **Core Curriculum Weighted Score:** 85.6/100
Ranking: 33/76 in Bioscience

RESEARCH EXPERIENCE

High-resolution imaging of immune synapses of NK cells May 2023 - Present
Core member of the project *Under the supervision of Professor Xiaohu Zheng*

Imaged the immune synapse between NK cells and tumor cells with **stimulated emission depletion microscopy (STED)**.
Observed topological structure and membrane protein distribution of immune synapse.
Evaluated the effect of tumor microenvironment on NK cells.

Biosynthesis of Borneol in Oleaginous Yeast(19^{th} iGEM) Jul 2022 - Oct 2023
Core member of dry lab *Under the supervision of Assistant Professor Jiong Hong*

Built a **kinetic model** to simulate the enzyme-catalyzed reaction from Acetyl-CoA to Mevalonate diphosphate in oleaginous yeast (*Yarrowia lipolytica*).
Predicted the optimum enzyme ratio with the kinetic model using **genetic algorithm**.
Designed a model to predict the duration of borneol required to traverse the blood-brain barrier and its resultant concentration.

HONOR & AWARD

Academic Scholarship (Third-Class), USTC **(Top 20%)**. Oct 2023
19^{th} International Genetically Engineered Machine (iGEM) Competition - **Silver Medal** Oct 2022

RESEARCH INTERESTS

Bioinformatics
Microfluidic in biomedical
Deep learning-enabled medical computer vision
Development and application of biosensors

SKILLS

Computer Languages	C/C++, Python, Shell
Software & Tools	Linux, LaTeX, Origin, FlowJo
Experiment Ability	Immunofluorescence, Flow cytometer, Super-resolution imaging