Jiacheng Wang

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Education Background

- **Nankai University(NKU), College of Life Sciences** 09/2018- 06/2021
  - **Major:** Biology Poling Class(Bachelor of Science)
  - **GPA:** 89.57/100 (91.09 if political courses are excluded)

Standardized Tests & Skills

- **TOEFL iBT** 02/27/2021
  - Total: 105 (R-30, L-27, S-23, W-25)
- **GRE Scores** 09/08/2019
  - Total: 330+3.5(V160/86%, Q170/96%, AW3.5/39%)

Research Experience

- Heart regeneration related (Internship at UCSF) 07/2021-01/2022

Advisor: Associate Prof. Guo Huang

  - To be updated.

- How E.coli K1 Traverses the Blood-brain Barrier without Arrested by Lysosome 12/2020-07/2021

Advisor: Associate Prof. Zhihui Cheng

  - E.coli K1 is the globally most common cause of neonatal bacterial meningitis. Though many studies revealed the possible mechanisms used by E.coli K1 to traverse the blood-brain barrier, it is still unclear how the intracellular bacteria containing vesicles escape fusion with lysosome. In this study, we focus on several proteins mediating fusion of vesicles and use CRISPR/Cas9 as a main method.

- Quality Examination and Comparison of Different Brands of Yogurt Beverage 09/2020-11/2020

Advisor: Associate Prof. Dongsheng Wei

  - Performed dilution coating plate method to evaluate the concentrations of S.thermophilus and Lactobacillus
  - Analyzed the data with SPSS, using One-way ANOVA to give out a significant difference
  - Performed Gram staining and 16s rDNA sequencing to determine the strains

- Improved Production of Fructooligosaccharide in Bacillus Amyloliquefacien by Combinatorial Metabolic Engineering Strategy 05/2020-09/2020

Advisor: Prof. Chao Yang

  - Screened out the optimal promoter, signal peptide and molecular chaperone to enhance the secretion of levansucrase

- HCV Hunter: A Paper-based HCV Detection Method | IGEM 2016 03/2016-11/2016

Advisor: BGI Shenzhen

  - Designed a cell-free system based on toehold switch to sensitively detect HCV RNA

Presentation & Publication

- Y. Zhao, Y. Che, F. Zhang, J. Wang, W. Gao, T. Zhang, C. Yang, Development of an efficient pathway construction strategy for rapid evolution of the biodegradation capacity of Pseudomonas putida KT2440 and its application in bioremediation, Science of The Total Environment (2020) 143239.

Honors & Awards

- 2021 University-level Third Prize Innovation Project
- 2019-2020 Nankai University Innovation Scholarship
- 2018-2019 Nankai University Gongneng Scholarship
- 2016 IGEM Gold Prize
- 2017 IGEM Bronze Prize (As an advisor)
- 2017 IGEM Best Presentation (As an advisor)