

YUEFAN (ARYA) YANG

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RESEARCH INTERESTS

As a third-year undergraduate student at Northwest A&F University, I am meticulously conducting nanoparticle-related experiments. With adhering to high standards of academic integrity with a rigorous mindset, I'm committed to pursuing a Ph.D. in **Basic Medicine**, focusing on the frontier of **Immunotherapy** advancements. My goal is to contribute to advancements in this field, particularly in cancer treatment. With this steadfast attitude, I am confident that I will be on track to excel in doctoral studies and make meaningful contributions to the scientific community.

EDUCATION

Northwest A&F University

B.Sc. in Biology Science

Shaanxi, China

Sep 2021 – Present

- **Courses:** Biochemistry (95), Probability and Statistics (93), Organic Chemistry (89)
- **Teaching Assistant:** Organic Chemistry (23 Spring, 24 Spring); Inorganic Chemistry (23 Fall)

PUBLICATIONS

Anti-Idiotypic Nanobody Alkaline Phosphatase Fusion Protein-Triggered On-Off-On Fluorescence Immunosensor for Aflatoxin in Cereals

Yu, G.; Wang, J.; Zhang, Y.; Wu, H.; Wang, Y.; Cui, Y.; **Yang, Y.**; Tang, X.; Zhang, Q.; Wang, J.; Sun, J.; Chen, R.; Wang, Y.; Li, P.

Journal of Agricultural and Food Chemistry (SJR rank Q1 in Agricultural and Biological Sciences)

EXPERIENCE

Biology Science Laboratory

Research Intern

Shaanxi, China

May 2022 – Present

Advisor: Dr. Yanru Wang

- Learned the process of nanobody screening.
- Studied the construction of anti-idiotypic nanobody as toxin substitutes.
- Studied and operated molecular modeling and molecular docking of nanobodies.
- Successfully constructed the expression vectors for functionalized nanobody, and expressed and purified the fusion proteins.
- Published a paper in *Journal of Agricultural and Food Chemistry* as a co-author and have one paper to be submitted.

National Innovation Training Program for College Students

Project Leader

Shaanxi, China

May 2023 – Present

Advisor: Dr. Yanru Wang

- Established expression vectors for nanobody functionalized fusion proteins and successfully obtained purified anti-idiotypic nanobody fusion proteins through expression and purification.
- Constructed a visual multicolor ELISA based on fusion proteins for the detection of aflatoxin.
- Awarded at the provincial level and received financial support.

SKILLS

- **Tools:** CAD, Microsoft Word, Canva
- **Programming:** Python, MATLAB, LaTeX
- **Bioinformatics:** ZDOCK, SWISS-MODEL server
- **Data Analytics & Graph Drawing:** SPSS, Origin, Minitab, ChemDraw

AWARDS

First-class scholarship (Awarded to top 10% students based on academic performance)

Issued by NWAFU

Sep 2022

Third Prize in The Chinese Mathematics Competitions

Issued by Chinese Mathematical Society

Dec 2022

Second Prize in Academic Poster Presentation and Competition

Issued by NWAFU

Nov 2023