

Zhuo Wang

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EDUCATION

Yantai University	Sept. 2020 - Jun. 2023
Master of Pharmacy, GPA: 85/100	Yantai, China
Southwest University of Science and Technology	Sept. 2016 - Jun. 2019
Master of Science in Biology, GPA: 83/100	Mianyang, China
Southwest University of Science and Technology	Sept. 2011 - Jun. 2015
Bachelor of Engineering in Pharmaceutical Engineering, GPA: 75/100	Mianyang, China

PUBLICATION

- [1] **Wang, Z.**, Zhao, Y. H., Chen, J. X., Chen, M. Y., ... & Zhu, Y. P. (2023). One-pot Synthesis of Isoxazole-Fused Tricyclic Quinazoline Alkaloid Derivatives via Intramolecular Cycloaddition of Propargyl-substituted Methyl Azaarenes Under Metal-Free Conditions. *Molecules*, 28, 2787.
- [2] Zhang, X. J., **Wang, Z.**, Zhang, H., Gao, J. J., Yang, K. R., Fan, W. Y., ... & Zhu, Y. P. (2021). Iodine-Mediated Domino Cyclization for One-Pot Synthesis of Indolizine-Fused Chromones via Metal-Free sp³ C–H Functionalization. *The Journal of Organic Chemistry*, 87(1), 835-845. (The first four authors have equal contribution)
- [3] Li, L., Chen, J., **Wang, Z.**, Xie, L., Feng, C., He, G., ... & Zhu, H. (2021). A supramolecular gel made from an azobenzene-based phenylalanine derivative: synthesis, self-assembly, and dye adsorption. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 628, 127289.

PATENT

- [1] ZHU YANPING; HU YONGJI; ZHAO CONG; SUN YUANYUAN; HUANG SHUHUI; WANG KAILI; YU TIANXU; ZHANG CHENG Dong; LIU JUNHUA; GAO YANTING; **WANG ZHUO**. Novel pyrazolo pyridine compound with antitumor activity and preparation method thereof[P]. China: ZL 202011276885.X, 2021.02.02.

RESEARCH EXPERIENCE

Yantai University	Nov. 2022-Jun. 2023
Title: Two Celecoxib-based cancer targeted fluorescent probes for monitoring HOCl and polarity of cancer cell	
<ul style="list-style-type: none">Two novel of fluorescent probe combining Celecoxib, 1,8-Naphthalimide, and Triphenylamine (4-Aminophenol) were developed. Their abilities to target cancer cell and detect HOCl and polarity in cell are now being tested.Mainly responsible for the synthesis, purification, and characterization of the two probes. Part of cell cytotoxicity test (MTT method)	
Yantai University	May. 2022-May. 2023
Postgraduate Innovation Fund	
Title: Synthesis and in vitro Anti-tumor Activity of 2,3-Dihydro-1H-indeno[2,1-c]pyridine Derivatives	
<ul style="list-style-type: none">A Novel Pd-catalyze method to 2,3-dihydro-1H-indeno[2,1-c]pyridine derivatives were developed. And MCF-7 cells and A549 cells were used for evaluating the anti-tumor activity of these derivatives.Mainly responsible for scoping part of substrates, conducting the anti-tumor activity test, and writing the research proposal.	
Yantai University	Mar. 2021-Mar. 2023
Title: Design, synthesis, and in vitro anti-tumor activity of 4H-isoxazolo[3',4':4,5]pyrano[3,2-b]quinoline and derivatives	
<ul style="list-style-type: none">A serials novel of compounds and derivatives fusing fragment of natural product and isoxazole were designed. And a method was developed for the convenient synthesis of these compounds via intramolecular cycloaddition of methyl azaarenes with tert-butyl nitrite (TBN). And MCF-7 cell was used for evaluating the anti-tumor activity of these compounds. The compound with the best anti-tumor activity was further tested in its ability to inhibit cell migration, cell proliferation, and cell apoptosis.Master's thesis	
Southwest University of Science and Technology	Mar. 2017-Mar. 2019

Title: Screening and growth-promoting characteristics of a multi heavy metal-tolerant plant growth-promoting bacterium.

- Multi heavy metal-tolerant bacterium, D16, was isolated from *Rumex acetosa* L., a native plant of the polluted mining area, and its effect on the uptake of heavy metals by other hyper-accumulated plants was investigated.
- Master's thesis

WORK EXPERIENCE

Southwest University of Science and Technology

Jul. 2019-Dec. 2019

Position: Research Assistant

Mianyang, China

- Assisted with adsorption experiments and laboratory health and safety. Mastered the use of a UV spectrophotometer.

Southwest University of Science and Technology

Jun. 2017-May. 2019

Position: Laboratory Student Leader

Mianyang, China

- Responsible for the maintenance of the essential function of the laboratory, and ensuring the safety and sanitation in the laboratory. Management of materials and chemicals of laboratory. Reimbursement and Management of lab accounts.
- Acquired teamwork and people management skills, as well as the ability to handle the paperwork.

HONORS

- Second Prize in the 9th Shandong Province College Student Science and Technology Innovation Competition 2023
- Third Prize in the 8th Shandong Province College Student Science and Technology Innovation Competition 2022
- Postgraduate Third-Class Scholarship in Academic Year 2022
- Postgraduate Third-Class Scholarship in Academic Year 2020
- Postgraduate Third-Class Scholarship in Academic Year 2018
- Third Prize in the SWUST "Fantastic Idea" Science and Technology Innovation Competition
- Postgraduate Second-Class Scholarship in Academic Year 2016

SKILLS

Languages

Mandarin (native), English (Duolingo English Test: 105, TOFEL: preparing)

Professional Skills

Synthesis and purification of small organic compounds, cell culture, intragastric administration of Mice, Microbe Experiment

Microplate reader, TLC-CMS, HR-MS, Scanning Electron Microscope

Programming Skills

Office, Origin, Chemdraw, Mestre Nova, Discovery studio, GraphPad