

Yongle Zhao

Email: yonglezhao7@gmail.com

Phone: +86 15253809938

Homepage: <https://yonglezhao7.github.io/stellar-meadow/>

EDUCATION

Master of Pharmaceutical Chemistry, Shandong University Sep.2023 - Jun.2026

- **Core Module:** Pharmaceutical Chemistry, Organic Chemistry, Spectrum Analysis, Organic Synthesis Separation.

Bachelor of Pharmacy, Shenyang Pharmaceutical University Sep.2019 - Jun.2023

- **GPA:** 3.2/4.0
- **Core Module:** Pharmaceutical Chemistry, Organic Chemistry, Molecular Biology, Biochemistry, Pharmacology, Pharmaceutics.

RESEARCH INTERESTS

The synthesis and modification broad spectrum antiviral nucleosides, chemical modification of oligonucleotides.

PROJECT EXPERIENCES

“Synthesis of Novel 4’-Modified Pyrazomycin Derivatives” 2025 - present

- **Project Description:** Optimization of the total synthesis pathway for the natural nucleoside compound pyrazofurin, followed by structural modifications of the resulting pyrazofurin nucleoside scaffold as a lead compound, aiming to discover highly efficient and low-toxicity nucleoside antiviral agents.
- **Work Content:**
 - ◆ The synthesis of pyrazomycin nucleoside scaffold after a multi-step synthesis (exceeding ten steps).
 - ◆ The introduction of a hydroxymethyl group to the 4'-position of the pyrazomycin nucleoside furanose ring.
 - ◆ Subsequent modifications of this hydroxymethyl group to introduce diverse substituents.

“Synthesis of Novel 4’-Modified 1-methylpseudouridine Derivatives” 2024 - 2025

- **Project Description:** With the uridine analog N1-methylpseudouridine as a lead compound, structural modifications will be performed with the aim of discovering highly efficient and low-toxicity nucleoside antiviral compounds.
- **Work Content:**
 - ◆ The introduction of a hydroxymethyl group or a double bond to the 4'-position of the 1-methylpseudouridine furanose ring.
 - ◆ Subsequent modifications of this group to introduce diverse substituents.

SKILLS

- **Technical Skills:** Organic Synthesis and purification, Spectrum Analysis, Synthesis Instruments: UV-visible spectroscopy, LC, LC-MS, MS
- **Soft Skills:** teamwork, adaptability, effective communication
- **Languages:** Chinese(native), English (CET6, Prepare for IELTS)
- **Interests:** photography

AWARDS & HONORS

- Postgraduate Second Class Academic Scholarship 2024
- third scholarship 2022, 2021
- Academic Scholarship 2020
- Outstanding student cadres 2022
- Advanced individual in Social Practice 2022
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EXTRACURRICULAR PRACTICAL ACTIVITY

Practical activity 2022

- Advanced individual, Feicheng Librarian
- Hosting special holiday library activities
 - Cleaning and organizing of books
 - Providing book lending services