

Lujia SHEN

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Address: No.91 Xiaogaobu, Donghu Street, Yuecheng District, Shaoxing City, Zhejiang Province, China

EDUCATION

Zhejiang Ocean University

09/2020-06/2024

Bachelor of Science in Pharmacy

- Average Score: 86.1/100
- Modules: Inorganic and Analytical Chemistry, Human Anatomy and Physiology Laboratory, Development and Utilization of Biological Resources, Microbiology and Immunology, Medical and Pharmaceutical Mathematical Statistics, Organic Chemistry, Biochemistry and Molecular Biology, Instrumental Analysis, Pharmaceutical Analysis

Universiti Malaya

09/2022-02/2023

Exchange Programme

- Modules: Personality Psychology, Principles of Chemistry, Basic Mathematics for Chemistry, Phycology

PUBLICATION

Lujia. S (2024), Acute toxicity test of peptides from monkfish meat in mice. *Hubei Agricultural Sciences*, 2024, 63(12): 135-138.

- Conducted an acute toxicity assessment of monkfish polypeptides in ICR mice, involving the administration of varying dosages to determine safety profiles.
- Monitored and recorded the weight changes of mice over a 14-day period, ensuring meticulous observation of any signs of toxicity or adverse effects.
- Performed histological analysis using HE staining on collected tissue samples, confirming the absence of significant abnormalities and validating the non-toxic nature of the polypeptides.

Lujia. S (2023) Monkfish (*Lophius litulon*) Peptides Ameliorate High-Fat-Diet-Induced Nephrotoxicity by Reducing Oxidative Stress and Inflammation via Regulation of Intestinal Flora. *Molecules*, 2023, 28, 245.

- Hydrolysed monkfish meat using neutral protease successfully isolates bioactive peptides with the highest antioxidant capacity, subsequently designated as *Lophius litulon* peptides (LPs).
- Induced lipid nephrotoxicity in experimental models through an 8-week high-fat diet, allowing for a comprehensive assessment of the protective effects of LPs on renal function.
- Evaluated the impact of LP treatment on oxidative stress and inflammatory markers, demonstrating significant reductions in serum creatinine and uric acid levels alongside an enhancement in antioxidant enzyme activities.

PROJECT EXPERIENCE

Preparation and efficacy evaluation of renal protection peptide from monkfish (*Lophius litulon*)

(Project Leader-A National Innovation and Entrepreneurship Project for University Students)

06/2022-05/2024

- Helped in preparing and evaluating efficacy of kidney-protective peptides from monkfish, which included the development process and team working.
- Conducted enzyme-assisted peptide extraction through single-factor screening and response surface methodology, which efficiently separated small molecular peptides by ultrafiltration for analysis.
- Evaluated the acute toxicity of the peptides in ICR mice, examining tissue structure and biochemical indicators to assess their impact on the heart, liver, spleen, lungs, and kidneys while establishing a kidney injury model to investigate potential reparative effects.

THESIS EXPERIENCE

Protective effect of Monkfish (*Lophius litulon*) peptides on high-fat-dite-induced renal injury

05/2024

- Investigated the protective effect of monkfish peptides against renal injury induced by a high-fat diet in a mouse model, providing significant insights into potential therapeutic applications.
- Conducted a series of biochemical experiments, including ELISA for inflammatory markers and Western blotting of Nrf2/Keap1 pathway proteins, to determine the impact of monkfish polypeptides on kidney function.
- Observed significant improvements in renal index and antioxidant enzyme activities, demonstrating the efficacy of monkfish peptides in mitigating oxidative stress and restoring kidney structure following dietary-induced damage.

INTERNSHIP EXPERIENCE

Antengene Corporation

Zhejiang China

Research Assistant

07/2024-12/2024

- Conducted fundamental experiments including cell culture, PCR, Western blot, and ELISA, while assisting in the optimisation of experimental protocols.
- Compiled experimental data into presentations and Word documents, contributing to the drafting of patent applications.

- Collaborated with the quality control team to develop and refine testing protocols, enhancing the efficiency and accuracy of drug evaluation processes.
- Collaborated on the execution of experimental projects, gaining proficiency in operating common analytical instruments such as UV spectrophotometers, HPLC systems, gel imaging systems, and microplate readers, while successfully validating analytical methods.

Affiliated Hospital of Shaoxing University

Zhejiang China

Outpatient Pharmacy Intern

07/2023

- Acquired comprehensive knowledge of pharmaceutical classifications and storage conditions, ensuring effective management of medication by systematically organising drugs according to their dosage forms and therapeutic effects.
- Participated in the review and preparation of prescriptions, meticulously verifying prescription details, checking the validity and dosage of medications, and safeguarding accuracy throughout the dispensing process.

AWARDS

- Outstanding Graduate of Zhejiang Ocean University, 2024
- Academic Year 2022-2023: Second Prize in 'Reading China' Character Essay Competition, Outstanding Work in Theory Speech Category of Summer Social Practice Achievements Collection and Display Activity of China University Students Online 2022, Outstanding Research Report in Summer Social Practice Activity of 'Three to the Countryside', 'Two Hundred and Two to the Countryside', Academic Year 2022 of Zhejiang Ocean University. Outstanding Research Report Award of Summer 'Three to the Countryside' 'Double Hundred and Double In' Social Practice Activity, Zhejiang Ocean University Summer 'Three to the Countryside' 2022 Academic Year Excellent team of 'Double Hundred and Double Progress'.
- Winner of the 15th Life Science Competition for College Students in Zhejiang Province in October 2023 (4/5)
- Provincial Third Prize of Zhejiang Provincial Chemistry Competition in 2021-2022 Academic Year (3/4)
- Academic Year 2021-2022: Excellent Student Third Prize, Excellent Student Cadre, Excellent Communist Youth League Student Cadre, Top Ten Youth League Supporters of Zhejiang Ocean University in 2021
- Academic Year 2020-2021: Outstanding Student First Class Scholarship, Outstanding Student Cadre, Outstanding Communist Youth League Member, Third Best Student
- Academic Year 2020-2021: First Prize of 'Challenge Cup' Extracurricular Academic and Technological Works of College Students (3/4)

OTHER INFORMATION

- **Volunteer Experience:** Volunteered at Zhoushan Museum, awarded the title of Excellent Volunteer by Zhoushan City Museum. Provided volunteer services during the Hangzhou Asian Games.
- **Interests:** Listening to Songs, Painting, Reading Books, Drum Kit