Xiaoqun Tao

caroltxq@163.com| +86 13913543207
639 Longmian Avenue, Jiangning District, Nanjing, Jiangsu 211199, China

EDUCATION

3+1 Double Degree Program

China Pharmaceutical University (CPU), Nanjing, China 09/2018-06/2022

- ***B.S.***, Pharmacy(Biochemistry and Pharmacology); GPA: **88.34**/100
- **Honors&Awards:** Second-class Outstanding Student Scholarship (*twice*), CPU, 2020&2019; The Honorary Title of Triple-A student, CPU, 12/2020

University of Strathclyde, Glasgow, UK 09/2021-06/2022

- ***BSc,*** Biochemistry and Pharmacology

RESEARCH EXPERIENCE

Core Member, **In Vivo Metabolism Model Study on Species Differences in the Pharmacokinetics of Itraconazole** 04/2020-12/2020

Supervisor: Dr. Jianguo Sun

- Familiarized with the complete preparation methods and analysis process of human liver microsomes and rat liver microsomes, found the method which used the molecular docking software to simulate the difference in the site of action of the metabolic enzyme CYP3A4 on different configurations of itraconazole in rat liver microsomes
- Measured the metabolites of itraconazole in rats and human liver microsomes and enzymes co-incubated by liquid chromatography-mass spectrometry, and studied the configuration of metabolites
- Analyzed data and studied the different inhibitory effects of ITZ-C (2S, 4R, 2’ S) on human and rat CYP3A4 enzymes, simulated the different binding sites of ITZ-C (2S, 4R, 2’ S) to human and rat CYP3A4 enzymes
- Obtained the metabolic data of ITZ-C (2S, 4R, 2’ S) in vitro experiments of rat and human liver microsomes to testify species differences, explored their connections with the Hedgehog signaling pathway, provided experimental ideas for follow-up research

Core Member, **Design and 3D Printing of Tumor Cell Models** 09/2019-03/2020

Supervisor: Dr. Jianpeng Xue

- Utilized 3DMAX to make a model of each tumor cell, combined and used the software to render and color to complete the picture based on the schematic diagram in the literature on the process of tumor cell extravasation to blood vessels and migration
- Produced a complete tumor cell migration process, and printed the model assembly

ACTIVITIES

Minister of scientific drawing department, **3D Printing Maker Studio** 09/2019-Present

- Made pictures for professors’ papers, drew popular science and interesting pictures, models of cultural and creative works, designed medicine packaging

SKILLS

Software: Python, Java, C++, Graphpad, Origins, STATS； C4d, 3dmax, Photoshop, AI, PR

Instruments: Infrared Spectrometer, UV Spectroscope, Liquid Chromatography, Mass Spectrograph