CONTACT Wantong Li, <u>li.8779@osu.edu,</u> 6146962740 1234 Steelwood Rd, Apt 422 INFORMATION

Experienced in chemistry of Chinese Medicine and natural products. Graduate concentrate on identification of chemical components. Primary strengths include cell biology, plant taxonomy, and bio-pharmaceuticals technology.
 Experienced in molecular biology, elucidating the function of RNA molecules in gene expression and genome maintenance. Experiences focus on piRNAs, the essential microRNA regulating germline development and fertility in all animals.

EDUCATIONThe Ohio State UniversityColumbus, OHBachelor of Pharmaceutical ScienceJune 2020GPA: 3.6GPA: 3.6Relevant coursework: Organic Chemistry, Biology, Biochemistry, Physiology, Molecular BiologyGuangzhou University of Chinese MedicineGuangzhou, GuangdongBachelor of Chinese MedicineJune 2017Ranking 10/55Relevant coursework: Biochemistry, Inorganic Chemistry, Organic Chemistry, Analytic Chemistry,

Relevant coursework: Biochemistry, Inorganic Chemistry, Organic Chemistry, Analytic Chemistry, Physics, Plant Biotechnology, Botany, Pharmacology,

RESEARCH	Guangzhou University of Chinese Medicine	Guangzhou, Guangdong
EXPRIENCE	Undergraduate Research Assistant	September 2014-June 2017
	 Isolated medicinal chemical constituents from natural animals and plants by chromatographys Screened anti-tumor active components using MTT method by measuring cell viability and growth Prepared plant cell metabolites Developed content determination for bioactive components from plants using UPLC-Q-TOF/MS Identified chemical structure of unknown compounds using NMR 	
	Guangdong Hospital Of Traditional Chinese Medicine	Guangzhou, Guangdong
	The Second Affiliated Hospital Intern	June 2016-September 2016
	 Study pharmacokinetics, such as the absorption, distribution, excretion and metabolism of timosaponins in nude mice. 	
	• Study pharmacodynamics, observe the effects of drugs on animal behavior, and use common pathological models to observe the effects of drugs on animals.	
	 Use LC-MS to study the metabolism and blood levels of drugs in the human 	

- Identification of major components in rat plasma by UPLC LTQ-Orbitrap MS following oral • administration of zhimu-huangbo herb-pair decoction PROJECTS
 - Study on chemical constituents from the velamen of Tripterygium wilfordii Hook. F.
 - The content determination of Pteris semipinnata L. of the 7 main components. •
 - Studied on the Chemical Constituents and Content Determination of Pteris semipinnata L.

Department of Biological Chemistry and Pharmacology

Undergraduate Research Assistant

- Studied on protein-ligand interaction on p granules using the streptavidin-biotin system. .
- Identification of piRNA binding sites .
- Studied on the different proteins of interest using western blot and silver stain
- Determine the gene of interest can slow or reverse the mortal germline phenotype of mutants by RNAi against the target gene
- Using RNAi assay to measure the interaction of gene of interest in c. elegans.
- Applications: ChemDraw MestReNova EndNote X7 Microsoft Word, PowerPoint, Excel, VB, JAVA SKILLS
- The Third Prize, Academic Paper Contest ACADEMIC
- AWARD The Second Prize, International Contest of Innovation
- Fluent in English and Chinese LANGUAGES

Columbus, OH

July 2019-Current

RESEARCH