

Xin Chen

(206) 465-2734 cx2436cx@uw.edu

Seattle

www.linkedin.com/in/617442172 <https://cx2436cx.github.io>

EDUCATION

University of Washington	Sep 2019 - Jun 2024
Pharmaceutics, Ph.D. Candidate	Seattle
China Pharmaceutical University	Sep 2015 - Jun 2019
Pharmacy (Basic Pharmacy), Bachelor	Nanjing

SKILLS LIST

- DMPK research (Transwell/cellular accumulation/vesicles/microsome *etc.*)
- Animal research techniques (breeding, administration, tissue harvest)
- LC-MS/MS quantification and method development
- Proteomics
- R/Phoenix/Symcyp/MATLAB
- Cancer biology research techniques

PUBLICATIONS

- **Chen X**, Unadkat JD, and Mao Q (2023) Maternal and Fetal Exposure to (-)- Δ^9 -tetrahydrocannabinol and Its Major Metabolites in Pregnant Mice Is Differentially Impacted by P-glycoprotein (P-gp) and Breast Cancer Resistance Protein (BCRP). *Drug Metab Dispos* 51(3):269-275
- Mao Q and **Chen X** (2022) An update on placental drug transport and its relevance to fetal drug exposure. *Medical Review* 2(5): 501-511
- **Chen X**, Unadkat JD, and Mao Q (2021) Tetrahydrocannabinol and its major metabolites are not (or are poor) substrates or inhibitors of human P-Glycoprotein [ATP-binding cassette (ABC) B1] and breast cancer resistance protein (ABCG2). *Drug Metab Dispos* 49:910–918
- Li J, Lu Y, Wang D, Quan F, **Chen X et al.** (2019) Schisandrin B prevents ulcerative colitis and colitis-associated-cancer by activating focal adhesion kinase and influence on gut microbiota in an in vivo and in vitro model. *Eur J Pharmacol* 854:9–21
- Wang D, Li X, Li Jiani, Lu Y, Zhao S, Tang X, **Chen X et al.** (2019) APOBEC3B interaction with PRC2 modulates microenvironment to promote HCC progression. *Gut* 68:1846–1857
- **Chen X et al.** (2018) Quorum sensing inhibitors: a patent review (2014–2018). *Expert Opin Ther Pat*, 28:849–865.

CONFERENCES

Gorden Research Seminar (GRS) & Gorden Research Conference (GRC)	Mar 2023 Galveston, TX
Oral and poster presentation P-gp and Bcrp Exert Differential Impacts on Maternal and Fetal Exposure to Tetrahydrocannabinol and Its Major Metabolites in Pregnant Mice	
Experimental Biology (EB) 2022	Apr 2022 Philadelphia, PA
Oral and poster presentation (ASPET Program Committee Blue Ribbon Pick) P-gp and Bcrp Exert Differential Impacts on Maternal and Fetal Exposure to Tetrahydrocannabinol and Its Major Metabolites in Pregnant Mice	
Transportage 2021	Sep 2021 Virtual
Oral presentation Tetrahydrocannabinol and Its Major Metabolites are Not (or are poor) Substrates and Inhibitors of Human P-glycoprotein (P-gp/MDR1/ABCB1) and	

Breast Cancer Resistance Protein (BCRP/ABCG2)

EB 2021

Apr 2021

Poster presentation

Virtual

Tetrahydrocannabinol and Its Major Metabolites are Not (or are poor)

Substrates and Inhibitors of Human P-glycoprotein (P-gp/MDR1/ABCB1) and

Breast Cancer Resistance Protein (BCRP/ABCG2)

RESEARCH EXPERIENCES

Germ-free humanized PXR-CAR-CYP3A4/3A7 mice

Feb 2022 - Present

Researcher Department of Pharmaceutics

Seattle

- Generate conventional, germ-free, conventionalized germ-free, and EGCG-treated mice.
- Compare the mRNA and protein expression and activity of CYP3A4 in conventional and germ-free mice.

P-gp/BCRP and cannabinoids

Oct 2019 - Mar 2022

Researcher Department of Pharmaceutics

Seattle

- *In vitro* and *in vivo* investigation on whether P-gp/BCRP can limit exposure of cannabinoids and other interactions using cell, vesicle, and pregnant mouse models
- Two published first-author manuscripts on *Drug Metabolism and Disposition*

The uptake of vitamin K in Caco-2 cells

Feb 2019 - Jun 2019

Internship University of Washington

Seattle

- Cell culture and micelle incubation
- UPLC-MS/MS and data analysis

APOBEC3B and HCC progression

Nov 2015 - Jun 2018

Internship Center for New Drug Safety Evaluation and Research

Nanjing

National Undergraduate Training Programs for Innovation and Entrepreneurship

- Designed Tet-On plasmid systems to transfection cells.
- Co-IP and protein MS data analysis.
- One co-authored publication

The function of schisandrin B on colitis

Apr 2017 - Feb 2018

Internship Center for New Drug Safety Evaluation and Research

Nanjing

- DSS modeling and anatomy
- Immunohistochemistry
- One co-authored publication

PROFESSIONAL AND LEADERSHIP EXPERIENCE

Sir Run Run Hospital Nanjing Medical University

Sep 2017 - Oct 2017

Internship Pharmacy

Nanjing

- Assist official workers in drug dispensing and checking
- Literature interpretation and translation

Husky Taekwondo Club

Sep 2021 - Present

Treasurer

Seattle

HONORS & AWARDS

Ji-Ping Wang Endowed Fellowship

2022

Excellent Graduate

2019

Outstanding Student Cadre

2017

Excellent League Member

2017

Merit Student

2017