

# Xin Chen

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## EDUCATION

<b>University of Washington</b> Pharmaceutics Doctor School of Pharmacy	Sep 2019 - Jun 2025 Seattle
<b>China Pharmaceutical University</b> Pharmacy (Basic Pharmacy) Bachelor School of Pharmacy	Sep 2015 - Jun 2019 Nanjing

## RESEARCH EXPERIENCES

<b>Germ-free humanized PXR-CAR-CYP3A4/3A7 mice</b> Researcher Department of Pharmaceutics	Feb 2022 - Present Seattle
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- 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.

<b>P-gp/BCRP and cannabinoids</b> Researcher Department of Pharmaceutics	Oct 2019 - Mar 2022 Seattle
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- *In vitro* and *in vivo* investigation on whether P-gp/BCRP can limit exposure of cannabinoids and other interactions using cell, vesicle, and mouse models
- One published first-author manuscript and one preparing manuscript

<b>The uptake of vitamin K in Caco-2 cells</b> Internship University of Washington	Feb 2019 - Jun 2019 Seattle
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- Cell culture and micelle incubation
- UPLC-MS/MS and data analysis

<b>APOBEC3B and HCC progression</b> Internship Center for New Drug Safety Evaluation and Research	Nov 2015 - Jun 2018 Nanjing
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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

<b>The function of schisandrin B on colitis</b> Internship Center for New Drug Safety Evaluation and Research	Apr 2017 - Feb 2018 Nanjing
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- DSS modeling and anatomy
- Immunohistochemistry
- One co-authored publication

## PUBLICATIONS

- **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, American Society for Pharmacology and Experimental Therapy.
- 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, Elsevier.
- 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, BMJ Publishing Group.
- **Chen X et al.** (2018) Quorum sensing inhibitors: a patent review (2014–2018). *Expert Opin Ther Pat* **28**:849–865.

## CONFERENCES

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### EB 2022

P-gp and Bcrp Exert Differential Impacts on Maternal and Fetal Exposure to Tetrahydrocannabinol and Its Major Metabolites in Pregnant Mice

Apr 2022  
Philadelphia

- Oral and poster presentation
- ASPET Program Committee Blue Ribbon Pick

### Transporttag 2021

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)

Sep 2021  
Virtual

- Oral presentation

### EB 2021

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)

Apr 2021  
Virtual

- Poster presentation

## PROFESSIONAL EXPERIENCE

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### Sir Run Run Hospital Nanjing Medical University

Sep 2017 - Oct 2017  
Nanjing

Internship Pharmacy

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

## HONORS & AWARDS

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Excellent Graduate	2019
Outstanding Student Cadre	2017
Excellent League Member	2017
Merit Student	2017

## SKILLS LIST

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- DMPK research
- Animal research
- LC-MS/MS
- Cancer biology
- R
- Phoenix
- Symcyp
- MATLAB