

SHUTING XU

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Education

Shanghai Jiao Tong University, Shanghai, China

2021.9 – present

Master of Pharmacy in the branch of Immunopharmacology

GPA: 3.44/4

Coursework: Artificial Intelligence Pharmacy(A+), Immunopharmacology(A+), Principles of Pharmaceutical Chemistry(A+), Academic Writing, Norms, and Ethics(A), Biopharmaceuticals and Pharmacokinetics(A-)

China Pharmaceutical University, Nanjing, China

2017.9 – 2023.6

Bachelors of Pharmacy

GPA: 3.90/4

Coursework: Advanced Mathematics(94), Mathematical Statistics(93), Programming Language(91), Pharmacology(97), Organic Chemistry(96), Medicinal Chemistry(96), Microbiology(91), Instrumental Analysis(90), Human Anatomy and Physiology(89), Introduction to Clinical Medicine(89)

Thesis: Flavonoid FV-429 inhibits metastasis in human prostate cancer

Publication

- **Xu S***, Wang R. (2023) OdinDTA: Combining Mutual Attention and Pre-training for Drug-target Affinity Prediction. (*The 35th IEEE International Conference on Tools with Artificial Intelligence*, Under Review)
- **Xu S**, Yang C, Deng L*. (2023) Stem cell like CD8+T cells: a new force in cancer immunotherapy. (*Chinese Journal of Cancer Biotherapy*, In Submission) (In Chinese)

Research Projects

Predicting microRNA-disease associations from exosome-coated microRNA(Leader) 2023.7 – present

Shanghai Jiao Tong University

- **Description:** The project aims to discover disease-associated miRNA more precisely by combining exosome-miRNA related data through autoencoders and multiveiw learning.
- **Contribution:** Literature review, model construction, data preprocessing, and article writing.

OdinDTA–A model for predicting drug–target binding affinity(Leader)

2023.3 – 2023.7

Shanghai Jiao Tong University

- **Description:** The project aims to enhance the accuracy, interpretability, and generalization capability of drug-target affinity prediction tasks by employing a model that combines mutual attention mechanisms and pre-training tasks.
- **Contribution:**Literature review, model construction, data preprocessing, and article writing.

Radiation resistance with AR degradation(Member)

2022.12 – present

Research project led by Prof.Deng in Shanghai Jiao Tong University

*Founded by The National Natural Science Foundation of China

- **Description:** The project aims to explore the mechanism through which radiotherapy and Androgen Receptor (AR) degradation synergistically promote the stem-like CD8 positive T cells, as well as to develop innovative drugs.
- **Contribution:** Literature review, data processing, construction of protein expression systems, conducting flow cytometry analysis experiments, Western Blot experiments, qPCR experiments, cell experiments, animal experiments, etc.

Undergraduate Thesis–Flavonoid FV-429 inhibits metastasis in human prostate cancer2020.11 – 2021.5

Research project led by Prof.Guo in China Pharmaceutical University

- **Description:** The aim of this study is to investigate the role of the glycolysis mechanism in the inhibition of human prostate cancer cell metastasis by the flavonoid derivative FV-429 derived from wogonin, and provide a theoretical basis for new drug development.
- **Contribution:** Literature review, data processing, article writting, construction of drug-resistant cell lines, conducting Western Blot experiments, qPCR experiments, Transwell assays, cell experiments, animal experiments, etc.

5-FU resistance mediated by FOS gene and its mechanism(Leader)

2019.2 – 2020.12

Research project assisted by Prof.Zhao in China Pharmaceutical University

*Founded by National College Students' Innovation and Entrepreneurship Training Program

- **Description:** The aim of this study is to investigate the relevance and role of the FOS gene in the process of 5-FU resistance in colorectal cancer, and to explore the downstream regulated proteins influenced by it.
- **Contribution:** Literature review, data processing, Conducting biochemical experiments, cellular experiments, and animal experiments, etc.

Scholarships, Grants and Awards

Scholarships

- First Class Scholarship of Shanghai Jiao Tong University **2021.9**
- Scholarship Endowed By ApartGroup **2021.6**
- Second class scholarship of China Pharmaceutical University **2018.9 and 2019.9 and 2020.9**

Grants

- Founding of National College Students' Innovation and Entrepreneurship Training Program **2020.3**

Awards

- The Gold Price of The 8th China "Internet +" College Student Innovation and Entrepreneurship Competition, Shanghai Division **2022.9**
- The Silver Price of The 13th Challenge Cup National College Student Business Plan Competition, Shanghai Division **2022.9**
- Honor Certificate of Outstanding Graduates of China Pharmaceutical University **2021.6**
- Honor Certificate of Outstanding Student Cadres of China Pharmaceutical University **2019.9**
- Honor Certificate of Merit Student of China Pharmaceutical University **2018.9**

Teaching Assistant

Pharmacognosy/Lab **2022.9 – 2022.12**

- Instructor: Prof.LiuFu Deng (School of Pharmacy, SJTU)
- Undergraduate courses

Immunopharmacology **2022.3 – 2022.6**

- Instructor: Prof.LiuFu Deng (School of Pharmacy, SJTU)
- Postgraduate courses

Skills and Interests

Languages: Mandarin Chinese, English (IELTS 6.5)

Programming: Python, R

Software: SPSS, Origin, MOE, Graphpad, Flowjo, Photoshop, EndNote, Zotero, LaTeX

Techniques of biology: Cell Culture, Flow Cytometry, Real Time PCR, Western Blot, Animals Administration, Establishment of Animals Model

Interests: Piano, Cello, Badminton, Photography, Reading