

YI XIAO

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Summary

A student from MS in Biostatistics with experience in higher education/research institutes. Working knowledge in study design and online cancer database manipulation. Excellent in prioritizing, completing multiple tasks simultaneously.

Education

Mailman School of Public Health, New York, US, 09/2016~10/2017

- Master's Degree (MS), Biostatistics
- Relevant Course: Data Science, Biostatistical Methods, Probability, Principle of Epidemiology

Department of Surgery and Cancer, Imperial College London, UK, 09/2016 ~ 10/2017

- Master's Degree (MRes & DIC), Cancer Biology, Merit
- Relevant Course: Statistics, Grant Proposal Writing, R programming, Study Design

College of Pharmaceutical Sciences, Zhejiang University, CHINA, 09/2012~06/2016

- Bachelor's Degree, Pharmaceutical Sciences, 3.83/4.0
- Relevant Course: Principle of Database System, Pharmaceutical Statistics, Fundamental of Java Programming, Pharmaceutical Management and Affairs Law, Comprehensive Experiment for Drug Research and Design, Pharmacology, Biological Agents and Pharmacokinetics Study, Clinical Pharmacotherapeutics

School of Pharmacy, University College London, UK

- The Clinical Pharmacy Summer Training Program

Academic Experiences

Graduate Student Researcher, Imperial College London, 04/2016~10/2017

Research Topic: A comparative Study of Autophagy Inhibitor as a Potential Therapeutic Strategy for Small-cell Lung Cancer

- Evaluated the effect of autophagy inhibitors on cell proliferation and apoptosis in different lung cancer cell lines.
- Investigated the signaling pathway involved in autophagy inhibition.

Graduate Student Researcher, Imperial College London, 09/2016~04/2017

Research Topic: WWOX Sensitizes Ovarian Cancers to Paclitaxel Treatment via Modulation of Endoplasmic Reticulum Stress Response

- Designed experiment to examine the role of WWOX protein in modulating the sensitivity of ovarian cancer cells to paclitaxel and analysed results using SPSS and EXCEL.
- Used R to conduct Log-rank analysis of overall survival (OS) and progression-free survival (PFS) in two prominent EOC microarray data sets (Tothill and The Cancer Genome Atlas) and

confirmed the clinical relevance of WWOX expression to our experimental finding.

- An article based on the project was published in Cell Death and Disease.

Undergraduate Student Researcher, Zhejiang University, 09/2015~06/2016

Research Topic: Multifunctional Nanohybrid Based on Graphene Oxide to Overcome Doxorubicin Resistance

- Successfully designed a graphene oxide-based nano-carrier to reverse the multi-drug resistance of breast cancer by the dual effect of photothermal and photodynamic therapy.
- An article based on this project was under review.

Team member, Zhejiang University NESP Educational Practice, 04/2014~04/2015

- Designed Questionnaire and posted to over 300 student to analyze spending statistics among students at Zhejiang University during 2015 Double Eleven Festival.
- Analyzed students' spending features during 2015 Double Eleven using EXCEL. Our examinations included: the most popular buys, average spending and demographic of Double Eleven buyers.

Skills

- SAS, R, SQL, EXCEL, ACCESS, SPSS, Microsoft Office, Relational Database.
- Statistics, Data Analysis, Data Visualization.
- Molecular Biology, Biotechnology, Study Design.

Publications

- Zheng B, Wang J, Tang L, Danyan Z, Yi Xiao et al. Involvement of Rictor/mTORC2 in cardiomyocyte differentiation of mouse embryonic stem cells in vitro.[J]. *International Journal of Biological Sciences*, 2017, 13(1):110-121.
- Wang M, Li Y, HuangFu M, Xiao Y, Zhang T, Han M, Xu D, Li F, Ling D, Jin Y, Gao J, Pluronic-attached polyamidoamine dendrimer conjugates overcome drug resistance in breast cancer. *Nanomedicine (Lond)*. 2016 Nov; 11(22): 2917-2934.
- Janczar, Szymon & Nautiyal, Jaya & Xiao, Yi & Curry, Edward & Sun, Mingjun & Zanini, Elisa & JW Paige, Adam & Gabra, Hani. (2017). WWOX sensitises ovarian cancer cells to paclitaxel via modulation of the ER stress response. *Cell Death & Disease*. 8. e2955. 10.1038/cddis.2017.346.
- Under review: Wang, Meng & Xiao, Yi et al. Reactive oxygen species and near-infrared light dual-responsive indocyanine green-loaded nanohybrids for overcoming tumor multidrug resistance