

Qiuchen Wan

Curriculum Vitae

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BUSINESS ADDRESS

Jacobs School of Medicine and Biomedical Sciences
Hunter James Kelly Research Institute
NYS Center of Excellence, Room B4-125
701 Ellicott Street
Buffalo, NY 14203
(716)-817-3166
qiuchenw@buffalo.edu

EDUCATION

- **06/2018 - present - University at Buffalo, The State University of New York**

Master of Science, Pharmacology & Toxicology, GPA 3.56

Courses: Cell Biology; Biochemistry Principle; Fundamental of Pharmacology; Molecular Neuropharmacology; Cancer and Cardiovascular Pharmacology

- **07/2016 - 08/2016 - University of California at San Diego**

Oversea Summer Exchange Program

- **09/2014 - 07/2018 - China Pharmaceutical University**

Bachelor of Science, Marine Pharmacy

Courses: Molecular Biology, Microbiology, Physiology and Pharmacology, Marine Medicinal Resources, Marine Biology, Marine Medicinal Chemistry, Good Manufacturing Practice of Medicinal Product

RESEARCH EXPERIENCE

- **06/2018 - present - Iron metabolism in astrocytes, implications for oligodendrocyte maturation and myelination.**

Mentor: Dr. Pablo M. Paez, Hunter James Kelly Research Institute, UB.

- Utilized Cre-lox system to knock-out gene expression in glial cells
 - Maintaining and genotyping of different conditional KO mouse lines
 - Studied oligodendrocyte and astrocyte functions by several techniques such as immunofluorescence, western blot, electron microscopy and iron staining
 - Presented research results at local and national scientific meetings
- **09/2016 - 01/2017 - Study on mangrove microbial diversity and preliminary screening of its antibacterial activity**
Supervisor: Zhongjun Ma, Zhejiang University
 - Sequenced the strain isolated from the samples in order to obtain the distribution of the strain based on database
 - Multiple taxonomic studies on suspected new bacteria
 - Screened antibacterial activity of some valuable strains
- **09/2016 - 01/2017 - Establishment of a subcutaneous transplantation tumor model of breast cancer in mice**
Supervisor: Dr. Xingzhen Lao, China Pharmaceutical University
 - Cultured breast cancer cells in vitro and inoculated cells into mice to build model
 - Identified the morphological characters of cancer cells by H&E staining
- **03/2017 - 07/2017 - Relationship between peripheral 5-HT receptors and diabetic nephropathy**
Supervisor: Dr. Jihua Fu, China Pharmaceutical University
 - Investigated the effect of sarpogrelate (5-HT receptor antagonists) on a diabetic nephropathy rodent model
 - Gathered samples from animals and investigated the level of blood glucose, BUN, CRE, TC, and other references.

POSTER PRESENTATIONS

2019 - Society for Neuroscience, 13th Annual Neuroscience Day, Buffalo, New York, October 2019
Iron metabolism in astrocytes, implications for oligodendrocyte maturation and myelination.

Wan Q, Cheli VT, Santiago González DA and Paez PM.

[Poster](#)

2020 - Genetics, Genomics and Bioinformatics, 6th Annual Research Day, Buffalo, New York, January 2020

Iron metabolism in astrocytes, implications for oligodendrocyte maturation and myelination.

Wan Q, Cheli VT, Santiago González DA and Paez PM.

[Poster](#)

PUBLICATIONS

Wan R, Cheli VT, Santiago González DA, **Wan Q**, Rosenblum SL and Paez PM.

Delayed postnatal myelination in a conditional knock-out mouse for the ferritin heavy chain in oligodendrocyte progenitor cells.

[Journal of Neuroscience \(under review\)](#)

Wan Q, Cheli VT, Santiago González DA and Paez PM.

The role of astrocytes in brain iron absorption and distribution, implications for myelination and remyelination.

[Manuscript in preparation](#)

SKILLS

- **Software:** Prism, ImageJ, CorelDraw, MEGA & Photoshop
- **Office Tools:** Microsoft Office and Outlook
- **Language:** Mandarin Chinese (Fluent), English (Proficient)

SOCIAL SERVICES & ACTIVITIES

- **09/2015 - 09/2016** - Head of Department of Publicity, Students Association Union, China Pharmaceutical University
- **01/2016** - Volunteer, Global Conference on Pharmacy & Pharmaceutical Sciences Education, Nanjing China