

Yutong Gong

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BACKGROUND

- **M.Res**, Pharmacy, University of Nottingham, UK

Sep.2023-present

GPA: To be determined...

- **B.s.**, Pharmacy, China Pharmaceutical University, China

Sep.2019-Jul,2023

Weighted Average Mark:86.57/100

Main course: Cell Biology(89), Pathophysiology(84), Physical Chemistry(88), Pharmacology(88), Drug Analysis(83), Medical Chemistry(89), Biochemistry and Molecular Biology(84), Microbiology and Immunology(86), and corresponding experiment course.

Second-class Scholarship

- **PTE grade:** 71. Respectively 67, 74, 76, 71 in listening, reading, speaking, writing.

RESEARCH EXPERIENCE

Project:"Reconstitution of the core Ccr4-Not complex"

10/2023-present

Role: Project manager

- Experimental goal: Since Ccr4 protein plays a key role in the degradation process of mRNA, this project mainly hopes to analyze and purify Ccr4-Not protein fragments through technical means and purify different key fragments. This project hopes to continue to analyze protein structure and fragment function through technical means.
- Complete the following experiments independently: PCR, Western Blot, Protein Purification, DNA & Plasmid Miniprep, Cloning, Transformation, Gel Electrophoresis, etc.
- During the master's degree, I completed experimental projects independently, reported and discussed with my supervisor every week, and participated in laboratory group meetings every month. Able to independently report project progress and produce research posters. Be familiar with basic experimental operations, know how to promote experiments, and solve difficulties encountered in the project.

Project:" The anti-inflammatory function and biogenesis mechanism of the newly evolved circular RNA circIRAK3"

02/2023-06/2023

Role: Main researcher

- Experimental goal: In our group's previous experiments, we discovered a certain circular RNA, and after preliminary sequencing, we found that knocking it down can regulate the inflammatory response. Now we are mainly doing extensive knockdown experiments and sequencing.
- Complete the following experiments independently: Knockdown and sequencing of specific circular RNA, Protein BCA quantification, ELISA, Western blot, qPCR.

- Independently complete the preliminary design of the experiment and the implementation of the pre-experiment. Complete the improvement of the experimental program based on the results of the pre-experiment and preliminary sequencing, and process the experimental data after that. Complete the writing of the graduation thesis and the report of the graduation thesis.

Project: "Ubiquitination or Ubiquitination-like Modification of STING Protein Upregulates the Body's Innate Immune Response"

02/2022-11/2022

Role: Laboratory assistant

- Experimental goal: To demonstrate that the ubiquitinated STING protein can activate the innate immune response more rapidly and more vigorously than normal STING protein under the stimulation of cGAMP.
- Complete the following experiments independently: co-immunoprecipitation, Western blot, immunofluorescence, RT-qPCR, ELISA, etc. To confirm that the target protein is correctly expressed and can bind more downstream signal molecules.
- Improve relevant techniques, especially co-IP.

Project: "Assessment of the Therapeutic Effect of Breast Cold Compress on Breast Nodules"

03/2021-09/2021

Role: Laboratory assistant

- Main purpose: To check the safety and effectiveness of the products to be launched by the company through the investigation of the efficacy and mechanism of action of breast cold compresses circulating in the market, and to put forward suggestions for improvement.
- Responsible for literature retrieval, review, sorting and information integration to understand the definition of breast cold compress through a literature survey and learn about the varieties of breast cold compresses on the market, the patents on breast cold compresses, and the main effects and adverse reactions of the commercially available breast cold compresses.
- Mastered the skills of literature retrieval, reading, sorting and information synthesis and improved research capability and efficiency.

Project: "Effect of IRF8 on Precancerous and Post-Cancerous Liver Cancer"

06/2020-10/2020

Role: Member of the "Top-notch Program Summer Training Camp"

- Project goal: To explore the effect of the IRF8 gene on the precancer and post-cancer of liver cancer by injecting liver cancer cells into experimental mice knocked out of the IRF8 gene and comparing the disease course and the changes in pathological parameters after dissection of the experimental group and the control group.
- Responsible for the operation of basic experiments such as protein BCA quantification, protein extraction, DNA extraction, RNA extraction, RNA quantification, gene identification, feeding and administration of laboratory mice and cell inheritance.
- Familiarized with laboratory routines and grasped basic experimental skills about proteins, DNA, RNA, cells, and mouse anatomy.

CAMPUS INVOLVEMENT

School Assistant Team, Vice Chairman

05/2020-10/2021

- Responsible for planning and organizing various school activities and other management work.
- Initiated the "Freshman Backbone Training Camp", adopted the form of "lectures+laboratory visits+welcome party+peer tutor+group competition+reunion dinner" to help freshmen adapt to college life; awarded "Qualified Graduation Certificate" to each camper and honorary title of "Excellent Camper" to winning group members.
- Improved the abilities of planning, organizing, arranging and leading.

Host Club, President

03/2020-12/2021

- Responsible for organizing internal training and regular lectures by experienced alumni or teachers to improve hosting level of members, connecting with other organizations, accepting invitations to host activities, and holding assessment within the club to select members to complete the hosting work.
- Served as the hostess of the "Autumn Banquet Carnival" for two consecutive years(2019 and 2020), responding to emergencies, maintaining order, enlivening the atmosphere at the scene and taking overall progress control, and took charge of the collection, writing and review of program-related information, and participated in the production of the program beforehand.
- Improved leadership skills and the ability to unite the team and coordinate teamwork.

Street Dance Club, Member

10/2019-10/2021

- Learned ballroom dance, jazz dance, modern dance and street dance of all types.
- Performed as a dancer in "Fireworks" during the New Year's Eve party, to interpret grand fireworks and celebrating scenes with body language and dynamic music; our program was voted as "Best Show" of the night by the audience.

SKILLS AND SELF-EVALUATION

Good English ability for scientific reading, writing and communication

- Have won the first prize in the 2020 Jiangsu Province "Aladdin Cup" Translation and Dubbing Competition
- Have won the second prize of the 25th China Daily "21st Century Coca-Cola Cup" National College English Speech Contest.

Basic skills of R programming, Python, Graphpad

- Have used R programming and Graphpad to process data and draw experimental picture during undergraduate graduation design

Abundant operation experience of HPLC-MS and GC, cell culturing, animal experiment

- Have learned these skills on experiment course and got good grades.

Strong ability in communication and teamwork, positive attitude towards laboratory works, strong curiosity on scientific programme and experiment

- Work as the leader of a group in experiment class and get good grades.
- Enjoy the time I spend in laboratory and learn experience from failed experiments.