

Chen Jingwen

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EDUCATION

Macau University of Science and Technology (MUST)

Bachelor of Science in Food and Nutritional Science

GPA: 3.78/4.0

Macau, China

09/2019-06/2023

IELTS: 7 (L: 6.5 ; S: 6 ; R: 8 ; W: 6.5)

INTERNSHIP EXPERIENCE

RA, Dairy Innovation Center, Jiangnan University

06/2022-08/2022

- Cooperated with U.S. Dairy Export Council on the R&D of high protein ice cream; tested ice cream texture, hardness, melting rate, storage stability and perform sensory evaluation; conducted basic industry research, such as observing the size and quantity of ice crystals in ice cream under various processes and formulations, calculating the influencing factors of hardness and studying the denaturation of whey protein, etc;
- Conducted experiments using Milk Permeate to replace fat and sucrose in ice cream, and explore the application of Milk Permeate in salt reduction of commercially available products;
- Cooperated with the enterprise Bai Cao Jian to develop high protein brittle tablets with vegetable energy drinks

TA, Faculty of Medicine, MUST

02/2022-06/2022

- Assisted in the design and optimization of Organic Chemistry and Biochemistry and Molecular Biology teaching experiments;
- Conducted experiments including extracting caffeine in coffee by Soxhlet method, preparation of ethyl acetate and aspirin, Western Blot, etc.
- Responsible for experiment materials preparation, pretest, experiment class assisting and instruments organization.

RESEARCH EXPERIENCE

Study on Detection of Polycyclic Aromatic Hydrocarbons in Tea by Magnetic Nanoparticles

11/2021-04/2022

State Key Laboratory of Quality Research in Chinese Medicine, MUST

- Advisor: Prof. Xiao Ying, Assistant Prof. Yu Xi (MUST)
- Synthesis of C18-UMS NPs by Chemical coprecipitation (C18-Functionalized Ultrafine Magnetic Silica Nanoparticles);
- Perform internal standard method. Configure different concentrations of PAHs standard solution (0.5-300 parts per million), then after processing spiked sample, adopt the MSPE (Magnetic solid - phase extraction) for preprocessing;
- SPSS and GraphPad Prism were used to organize the data into charts that met the requirements of the paper, such as drawing quasi-curves with peak area as ordinate and concentration as abscissa, drawing recycle curves of magnetic nanoparticles, etc.,
- Responsible for writing relevant papers (papers to be published, journals to be published: Foods; Third author)

Study on the Quality Improvement of Wholemeal Bread using Lactic Acid Bacteria Starter

04-10/2021

- To improve the wholemeal bread products for THREE SQUIRRELS based on market need;
- Searched and sorted out literature to verify the possibility of using lactic acid bacteria starter to improve the quality of wholewheat bread, and optimized the types and dosage of food additives according to the effect of starter;
- Evaluated the texture and shelf life of the bread made by the modified method, and perform sensory evaluation experiments
- Collected materials and use Procreat to design product packaging
- Won the 3rd Prize in Snack Food Innovation Competition by Chinese Institute of Food Science and Technology (CIFST)

EXTRACURRICULAR ACTIVITIES

- Project promoter, 'Healthy Campus' Activity, MUST 05-06/2022
- Participant, UN Sustainable Development Goals International Online Competition 07-08/2021
- Participant, Voluntary Activities on Sexuality and Health for Adolescents in Both Sides of the Taiwan Straits and Hong Kong and Macau 12/2020
- Participant, Networking in MUST 09/2020-present
- Participant, Macau Judicial Police Community Safety Youth Leadership Program 09/2020-06/2021
- Participant, Learning Tour of the Greater Bay Area, visited outstanding enterprises, former residences of celebrities, attended lectures, and spoke as a representative 12/2019
- Participant, Charity Bazaar Held at Macau South Bay Friendship Plaza for the Disabled 10/2019
- Participant, Best Buddies, providing help and friendship for the Disabled 09/2019-09/2020

ACHIEVEMENTS/AWARDS

- Excellent Participant in NUS Food Technology Challenge 06/2022
- Dean's List of Outstanding Students, 10%, MUST 09/2021
- The Third Prize in CIFST- the 3rd "Three Squirrels" Snack Food Innovation Competition, 3/368 10/2021
- Excellent Participant in United Nations International Online Competition for Sustainable Development Goals 08/2021
- Excellent Debater in College Students Invitational Debate on Current Politics, 6/56 05/2021
- Finalist in Greater Bay Area Youth Innovation and Entrepreneurship Competition, 7/60 05/2021

ADDITIONS

- Proficient in MS Office (Word, Excel, PowerPoint)
- Can fluently use SPSS, GraphPad Prism, and PR(Adobe Premiere Pro)
- Primarily mastered Python
- Proficient in literature retrieval and collation
- Language: Chinese (Native), English (Proficient), Japanese (Basic), Serbian(Basic)