

Li-Hsuan Chen

PhD student

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EDUCATION

2023~ PhD Department of animal and veterinary sciences
Student Aarhus University, Denmark
2022 M.S. Marine Biotechnology and Resources
National Sun Yat-Sen University, Taiwan
2020 B.S. Marine Biotechnology and Resources
National Sun Yat-Sen University, Taiwan

RESEARCH SKILLS

Molecular biology: DNA extraction and purification; RNA extraction and purification; cDNA production; PCR and RT-qPCR; DNA sequence analysis; Western blotting.

Microbiology: Microbial culture; Bacteria isolation; Gram Staining; Biochemical test; Growth curve assay; Molecular identification of bacterial species.

Bioinformatics: QIIME; 16SrRNA gene sequences analysis; Taxonomic classification of metagenome; Analysis of Microbiome Community Data in R.

Metabolomics: Mass spectrum data analysis; Compound identification; Metabolic pathway analysis.

Cell biology: Human/Fish skin tissue culture; Primary cell culture; Polarized epithelial cell culture.

Histology: Fish tissue smears examination; H&E staining; Fluorescence microscopy.

Physiology: Tissue protein expression; Tissue glycogen measurement; Enzymatic activity assay.

Pharmacology/toxicology: Inhibitor and drug screening on polarized epithelial cell integrity.

Pathology: Human tissue/cell line infection.

TEACHING

Teaching assistant: Marine microbiology/Biochemistry/Molecular biology

Research Mentor: Mentoring undergraduate research (Funded grant number: 111-2813-C-110-071-B).

PUBLICATIONS

Wang L-C, **Chen L-H**, Chiu Y-C, Liou C-Y, Chen H-C, Lu C-Y, Chen C-L. Teleost skin microbiome: An intimate interplay between the environment and the host immunity. *Fish Shellfish Immunol.* (2023). 139(10):108869. <https://doi.org/10.1016/j.fsi.2023.108869>

Chen L-H, Lin C-H, Siao R-F. *Aeromonas hydrophila* Induces Skin Disturbance through Mucosal Microbiota Dysbiosis in Striped Catfish (*Pangasianodon hypophthalmus*). *mSphere.* (2022). <https://doi.org/10.1128/msphere.00194-22>

Yang T-Y, Tseng S-P, **Chen L-H**, Lin C-H, Hsueh P-R, Lu P-L, Wang L-C. (2022). In vitro evaluation of AS101 against *Neisseria gonorrhoeae* infectivity. mSpectrum. (2022). <https://doi.org/10.1128/spectrum.01496-22>.

MA C-Y, Wang L-C, **Chen L-H**, Chiu Y-C, Huang A-T, Chen H-Y. (2022). Fish disease prevention of aquaculture industry in Kaohsiung, Taiwan. ISBN 978-986-376-251-5.

Siao R-F, Lin C-H, **Chen L-H**, Wang L-C. Establishment of a striped catfish skin explant model for studying the skin response in *Aeromonas hydrophila* infections. Sci Rep. (2021). 11:19057. <https://doi.org/10.1038/s41598-021-98583-8>

PRESENTATION

Chen L-H, Stig Purup, Mette S. Hedemann, Jerry Wells, Nuria Canibe. The impact of microbial derived metabolites on gut function in weaned piglets under different levels of dietary protein and a surplus of dietary amino acids. PIG-PARADIGM - Annual Meeting. (2024). Student presentation. Wageningen University, Netherland.

Chen L-H, Stig Purup, Mette S. Hedemann, Jerry Wells, Nuria Canibe. The impact of microbial derived metabolites on gut function in weaned piglets under different levels of dietary protein and a surplus of dietary amino acids. PIG-PARADIGM - Annual Meeting. (2023). Student poster presentation. University of California, Davis, the USA.

Chen L-H, Wang L-C. *Aeromonas hydrophila* can trigger mucosal microbiota in *Pangasianodon hypophthalmus*. Mitalk Young Scientist Workshop of Taiwan. (2022). Student Talk. Tunghai University, Taiwan.

Chen L-H, Wang L-C. *Aeromonas hydrophila* induces skin disturbance through mucosal microbiota dysbiosis in *Pangasianodon hypophthalmus*. The fisheries society of Taiwan conference. (2022). Student poster presentation. National Chiayi University, Taiwan.

SCHOLARSHIPS AND GRANTS

Grant funded by Ministry of Science and Technology of Taiwan under grant number 110WFA0810232 (2021).

Master student scholarship for outstanding bachelor graduates of National Sun Yat-sen University (2020-2022).

AWARDS

The fisheries society of Taiwan conference---Contest award of annual academic poster (2022)

Outstanding Master graduates of National Sun Yat-sen University (2022)

Outstanding Bachelor graduates of National Sun Yat-sen University (2019)

CERTIFICATIONS

Certified proficient in English (IELTS test results are L: 7.5, R: 7, W: 6.5, S: 6.5 and overall: 7)