

**Li-Hsuan Chen**

**PhD student**

Department of animal and veterinary sciences, Aarhus University, Viborg, Denmark

+4591417741

[lihsuan.chen@anivet.au.dk](mailto:lihsuan.chen@anivet.au.dk)

## **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)