

Nutthapon Dear Sangklai (He/Him)

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WORKPLACE Center of Excellence for Molecular and Genomics of Shrimp (CEMS)
Department of Biochemistry, Faculty of Science, Chulalongkorn University
254 Phaya Thai Road, Patumwan, Bangkok, Thailand 10330

EDUCATION

Ph.D. candidate 2020 - Present
Center of Excellence for Molecular Biology and Genomics of Shrimp (CEMS)
Department of Biochemistry, Faculty of Science, Chulalongkorn University
Project title (Academic Research)
Immune signaling and pathogenesis of *Enterocytozoon hepatopenaei* Infection
in pacific white shrimp *Litopenaeus vannamei*

B.Sc. in Biochemistry 2016 - 2020
Chulalongkorn University
Project title (Academic Research)
Identification of single nucleotide polymorphism (SNP) markers associated with
white spot syndrome virus tolerance in Pacific white shrimp *Penaeus vannamei*
using ddRAD sequencing

High School Diploma 2010 - 2015
Ratthanatibath school
Nonthaburi, Thailand

WORK & RESEARCH EXPERIENCES

Internship 2019
Department of Biological Sciences, National University of Singapore
Project title
Effect of intestine inflammation on liver tumor metastasis at *twist1a/xmrk* or
twist1a/krasV12 double transgenic larva or adult fish by LPS or DSS

HONOURS & AWARDS

Winner of oral presentation: Cell and Molecular Biology 2022
The Biological Sciences Graduate Congress (BSGC) 2022
Bangkok, Thailand

Undergraduate Research Pitching Award with Distinction 2020
The Hitachi Trophy 2020 Competition
Bangkok, Thailand

EXTRACURRICULAR ACTIVITIES

Teaching Assistant 2023
CU-BMB Summer Camp
Bangkok, Thailand

President 2022
Biochemistry Graduate Student, Faculty of Science, Chulalongkorn University
Bangkok, Thailand

Supporter president of science student government 2017
Science Student Government, Faculty of Science, Chulalongkorn University
Bangkok, Thailand

SKILLS & EXPERTISE

Bioinformatics
Data Mining, Molecular Docking, Molecular Modeling, Genome Analysis, Sequence Analysis, and Phylogenetic Analysis

Molecular Techniques
RNA Interference Technique, Microbial Cultivation, Cloning/Protein Expression and Purification, Molecular Blotting, Co-Immunoprecipitation, DNA and RNA Extraction, Conventional/Quantitative PCR, Enzyme Activity Assay, Antimicrobial Activity Assay, and Animal cell culture

Microscopy Techniques
DIC, Phase, Fluorescence microscopy

Computational skills
Microsoft Office (Word, PowerPoint, Excel)

FIELDS OF INTEREST

host-pathogen interaction, genetic variation, gene regulation, bio-defense molecules, and immune effectors

PUBLICATIONS

1. Junprung, W., Supungul, P., **Sangklai, N.**, & Tassanakajon, A. (2022). Heat Shock Protein 70 Is a Damage-Associated Molecular Pattern That by Binding to Lipopolysaccharide and β -1, 3-Glucan-Binding Protein Activates the Prophenoloxidase System in Shrimp. *The Journal of Immunology*, 209(3), 582-592.
2. **Sangklai, N.**, Supungul, P., Jaroenlak, P., & Tassanakajon, A. (2024). Immune signaling of *Litopenaeus vannamei* c-type lysozyme and its role during microsporidian *Enterocytozoon hepatopenaei* (EHP) infection. *PLoS pathogens*, 20(4), e1012199.