

Silpakorn International Conference on Total Art and Science 2021
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Introduction of Keynote Speaker

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I am Associate Professor at Universiti Malaysia Terengganu (UMT) and currently the Deputy Director of Institute of Tropical Aquaculture and Fisheries (AKUATROP) and also head of Program Shellfish Health and Food Quality Assurance. I obtained my PhD in Veterinary Studies from Murdoch University, Western Australia in 2008.

My main research interest focuses on fish and shellfish diseases and management. More specifically, I am interested in understanding the pathogenesis of diseases in wild and farmed fish/shellfish. I am also interested in exploring the stress response to environmental and aquaculture related stressor such as changes in water quality and handling. My basic approach to this research is the use of techniques including histopathology and molecular diagnostic tools. As a researcher in fish health, I use my knowledge and expertise to help the aquaculture industry by developing products based on natural resources for fish treatment. I have developed products such as an anti-parasite, anti-bacteria and wound healing treatment from *Melaleuca cajuputi* extraction. I have developed three products for fish and shellfish health such as LeucaFeed, LeucaFix and LeucaDrops. Recently, my research is on the biosynthesis of gold nanoparticles (AuNps) using *Melaleuca* extract against shrimp pathogens, *Enterocytozoon hepatopenaei* (EHP) and *Vibrio* spp.