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Anuphap PRACHUMWAT, PhD, is a senior researcher at National Center for Genetic Engineering and Biotechnology (BIOTEC) of National Science and Technology Development Agency (NSTDA) in Thailand, where he works in Aquatic Animal Health Research Team (AQHT) of the Integrative Aquaculture Biotechnology Research Group (AAQG). He received his doctorate in Genetics from University of Chicago, USA, with a thesis on molecular evolution of gene duplicability and gene functions. He is interested in utilizing genomic sequences to better understand interactions between shrimp, their pathogens and microbiomes. He analyzes genomes and transcriptomes of several shrimp pathogens (bacteria, virus, bacteriophages and microsporidia) for developing detection methods and strategies to control infections and reduce virulence. With advances in DNA sequencing technologies and bioinformatics, he and his colleagues investigate microorganisms and pathobiomes of shrimp aquaculture systems for shrimp health and pathogen discovery of current and possible future emerging shrimp diseases.