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Dr. Wananit Wimuttisuk received her doctoral degree in Biology and Medicine from Brown University, Rhode Island, USA in 2007. Her area of expertise includes cell biology, gene expression analysis, protein-protein interaction, and LC-MS/MS analysis. She joined the Bioassay Research Team at BIOTEC and began establishing the eicosanoid biosynthesis pathway in the black tiger shrimp *Penaeus monodon*. Her research has previously focused on the effects of eicosanoids in male and female reproductive maturation. As eicosanoids are known not only for their roles in reproductive development, but also in inflammation and immune response, Dr. Wimuttisuk has recently expanded her research scope to examine the roles of eicosanoids in response to shrimp pathogenic infection. Her current work also focuses on the use of fatty acid supplementation in shrimp feed to improve growth, to mitigate the pathogen-induced inflammation, and to improve shrimp health.