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Animal Molecular Biology and Biotechnology Laboratory

Under the direction of
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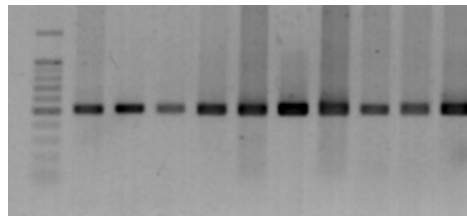
Animal biotechnology research cover molecular biology, biochemistry and genetic engineering for agriculture and related field applications.

- Molecular study in animal nutrition such as gene expression, gene or protein function and regulation in metabolism.
- Study biological properties and applications of economically important species of earthworm in Thailand.
- Molecular study on animal health and food safety.

Research Programs

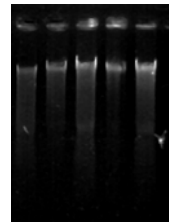
Molecular Nutrition

One factor considered to increase health and immune response of shrimps, is the use of aquaculture feed with high levels of dietary protein. Therefore, the studying of the effects of DL-methionine supplementation in low protein diet on immune function of Pacific white shrimp were investigated by studying of immune gene expression.



Earthworm

To discover the major benefits of earthworm activities to agriculture and animal nutrition. We are approaching to study earthworm polysaccharide and polypeptide and its antimicrobial functions on animal pathogen. Study on earthworm genetics by assistant genetic marker and study biological properties and applications of economically important species of earthworm in Thailand.



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Animal health and food safety

Nowadays people concern for food safety, meat or animal products derived from animal farm. Animal health and food safety researches provides safety of egg from animal research farm, by using molecular techniques to detect pathogen.



Graduate student

Mr. Nattapol Panwong

Senior project students

Mr. Ratchawat Noppha
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