Assoc. Prof. Dr. Lertluk Ngernsiri

Insect genetics: Research focus:

Cloning and sequencing sex determination genes

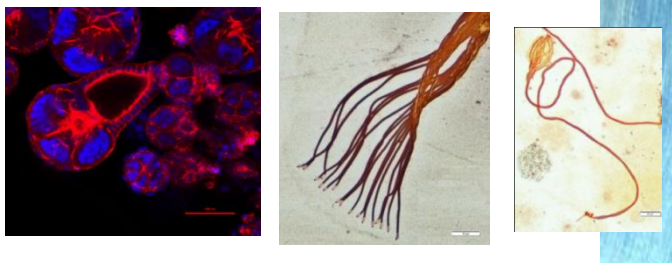
The main goal of this project is to clone some sex determination genes of some important insect of Thailand such as rice moth, silk moth, fruit flies and beetles. Moreover their expression and function will be examined using sex chromosome, RNAi and transgenic techniques.

Cloning and sequencing sex specific genes

The main goal of this project is to clone some sex specific genes such as *vitellogenin* from females, *tektin* from males from rice moth, giant water bug, eri silkworm.

Reproductive system

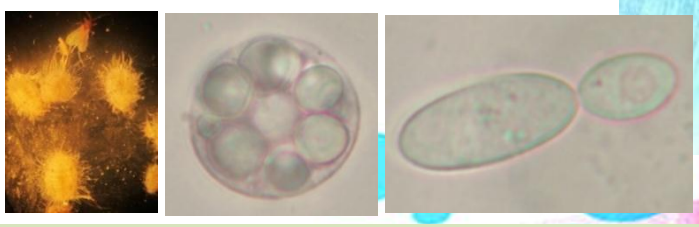
Most insects have two sex, male and female. The basic process of sperm and egg production of some insects should be known for further study at molecular level.



The main goal of this project is to study morphology of egg and sperm, spermatogenesis and oogenesis in lac insects, mealybug and giant water bug using fluorescence and conventional dyes.

Endosymbionts

Plant sap-sucking insects such as lac insects and mealybugs contain endosymbiotic microorganisms which necessary for growth and development of the host insects.



The main goal of this project is to identify endosymbionts associating with lac insects.

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