NUJIRA TATUN

School of Science,

University of Phayao, Mueang,

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EDUCATION

PhD (Biology 2008) Chiangmai university

MS (Biology 2004) Chiangmai university

BS (Biology 2000) Naresuan university

RESEARCH INTERESTS

- **Insect Physiology**
- **Economic Insects**
- **Insect Biochemistry and Molecular Biology**

TEACHING EXPERIENCES

- **Insect Biology**
- **Endocrinology**
- **Animal Physiology**
- **Independent Study**

GRANTS

- **Thailand Research Fund, 2010-2012:** Plant latex and carbohydrate-metabolizing enzymes in the red flour beetle
- **Thailand Research Fund, 2016-2019:** Functional analysis of carbohydrate-metabolizing enzymes in the red flour beetle
- **National Thai Research Council, 2017-2018:** Gut morphology and feeding behavior in termites

PUBLICATIONS

Tungjitwitayakul, J., Yasanga, T. and **Tatun, N**. (2019). UV-C radiation during the pupal stage affects morphological changes of wings in *Tribolium castaneum* (Col; Tenebrionidae). *International Journal of Radiation Biology,* DOI:10.1080/09553002. 2019.1625492.

Tungjitwitayakul, J. and **Tatun, N**. (2019). Hemocyte types based on total and differential counts in *Samia cynthia ricini* (Lepidoptera; Saturniidae) reared on host plants versus an artificial diet. Naresuan University Journal: *Science and Technology*. 27(3), 82-94.

Nujira T., Phiraya K., Jauporn T., and Sho S. (2018). Effects of 20-hydroxyecdysone on the development and morphology of the red flour beetle, *Tribolium castaneum* (Coleoptera: Tenebrionidae). *European Journal of Entomology*. 115: 424–431.

Nujira T., Chutamas S., Suwakan T. and Jatuporn T. 2017. Comparison of gut morphology and distribution of trehalase activity in the gut of wood-feeding and fungus-growing termites (Isoptera: Termitidae). European Journal of Entomology. 114: 508–516.

Tungjitwitayakul, J. **Tatun, N**., Vajarasathira, B., and Sakurai, S. (2016). Effects of ultraviolet-C and microwave irradiation on the expression of heat shock proteins genes in the maize weevil (Coleoptera: Tenebrionidae). European Journal of Entomology. 113: 135–142

PUBLICATIONS

Tatun, N., Tungjitwitayakul, J. and Sakurai, S. (2016). Developmental and lethal effects of trehalase inhibitor (Validamycin) on the *Tribolium castaneum* (Coleoptera: Tenebrionidae). *Annals of the Entomological Society of America.* 109(2), 224–231 .

Tatun, N., Wangsantitham, O., Tungjitwitayakul, J. and Sakurai, S. (2014). Trehalase activity in fungus-growing termite, *Odontotermes feae* (Isoptera: Termitideae) and inhibitory effect of validamycin. *Journal of Economic Entomology*. 107(3), 1224-1232.

Tatun, N., Vajarasathira, B., Tungjitwitayakul, J. and Sakurai, S. (2014). Inhibitory effects of plant extracts on growth, development and α-amylase activity in the red flour beetle *Tribolium castaneum* (Coleoptera: Tenebrionidae). *European Journal of Entomology*. 111(2), 181-188.

Tatun, N., Vajarasathira, B., Tungjitwitayakul, J. and Sakurai, S. (2014). Inhibitory effects of plant latex on trehalase activity and trehalase gene expression in the red flour beetle, *Tribolium castaneum* (Coleoptera: Tenebrionidae). *European Journal of Entomology*. 111(1), 11-18.

SERVICE TO THE FACULTY

- Risk Assessment Committee
- Biology Program committee
- Risk Assessment and Management Committee