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ผู้ช่วยศาสตราจารย์ ดร.



Current Research Topics

- Potency of Some Medicinal Plant Extracts as Insect Attractants in Paddy Field
- The Utilization of Biological Pest Control Strategies for Sustainable Cassava Cultivation
- Species Identification of Ladybird Beetles Family Coccinellidae in Lower Northern Thailand Using Morphological Characteristics and Mitochondrial DNA Sequence
- The Community Structure of Beneficial and Harmful Arthropod Fauna in Rice Field Ecosystems
- Comparative Microarchitecture of the Insects between Primitive and Advanced Insect Orders
- Application of Synthetic Sex Pheromone Traps for Moth Population Control in Durian Production: Systematics and Pheromone Content of *Mudaria* Durian Seed Borer

Teaching/Research Fields

Arthropod Pest Management
Biological Control of Insect Pests and Weeds
Crop Loss Assessment and Forecasting of Pest Outbreaks
Insect Ecology
Insect Pathology
Insect Science

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Education

1998–2001: B.Sc. (Agriculture) Second Class Honors, Majoring in Entomology, Department of Entomology, Faculty of Agriculture, Kasetsart University, Kamphaengsaen Campus, Nakhon Pathom,

2004–2007: M.Sc. (Entomology), Department of Entomology, Faculty of Agriculture, Kasetsart University, Bangkhen Campus, Bangkok, Thailand

2007–2011: Ph.D. (Biological Sciences), Majoring in Entomology, Biological Sciences Program, Faculty of Science, Chulalongkorn University, Pathumwan, Bangkok, Thailand.

Synopsis

Integrated Pest Management (IPM) is a cost-effective and ecologically friendly pest management strategy that employs a variety of common-sense techniques. IPM programs make use of up-to-date, comprehensive information about pest life cycles and interactions with the environment. This information, combined with existing pest management technologies, is utilized to manage pest damage in the most cost-effective manner and with the least risk to people, property, and the environment.

The IPM strategy is applicable to both agricultural and non-agricultural settings, including the home, garden, and office. IPM employs all suitable pest management strategies, including but not limited to the prudent use of pesticides. In contrast, organic food production employs many of the same techniques as IPM but restricts the use of pesticides to those derived from natural sources rather than synthetic chemicals.

Selected Publications

- Likhitrakarn, N., Jeratthikul, E., Sapparojpatana, P., Siriwut, W. Srisonchai, R., Jirapatrasilp, P., Seesamut, T., **Poolprasert, P.**, Panha, S. and Sutcharit, C. (2024). Six new species of the pill millipede genus *Hyleoglomeris* Verhoeff, 1910 (Diplopoda, Glomerida, Glomeridae) in Thailand revealed by DNA-barcoding. *Contributions to Zoology*. 1-25. (Q1)
- Kelly, E. T., Whittall, J. B., **Poolprasert, P.** and Edgerly, J.S. (2024). Twelve More Bulky Genomes in the Polyneoptera: Characterizing the Order Embioptera. *Insect Systematics and Diversity*. (Q1)
- Sittichaya, W., Thoawan, K., Sunpapao, A., **Poolprasert, P.**, Senarat, S., Kaneko, G., Charoenphon, N., Thammasoranakun, T., Haldhar, S.M. and Thaochan, N. (2023). Histological characterization of the ambrosia beetle, *Xylosandrus compactus* (Eichhoff, 1875) female, as an important destroy pest on *Mitragyna speciosa* from Thailand. *ScienceAsia*, 49(6):797-804. (Q2)
- Poolprasert, P.**, Senarat, S., Thongboon, L., Thaochan, N., Mongkolchaichana, E., Sukparangsi, W. and Charoenphon, N. 2023. Histological organization of tephritid fruit flies (Diptera, Tephritidae) from Thailand. *Songklanakarin Journal of Science and Technology*. 45 (3), 348–355. (Q2)
- Poolprasert, P.**, Senarat, S., Kettratad, J. Kaneko, G., Mongkolchaichana, E., Charoenphon, N. and Thaochan, T. 2022 Comprehensive structure of the female marine water-strider *Asclepios annandalei* Distant, 1915 from Pranburi River estuary, Thailand: New information for the Genus *Asclepios*. *Tropical Life Sciences Research*, 33(3): 47–60. (Q2)
- Poolprasert, P.**, Tanruen, K., Senarat, S. and Edgerly, J.S. 2021. *Diastolembia thailandensis*, a Remarkable New Genus and Species of Embiids (Embioptera: Embiidae) from Thailand. *Journal of Hunan University (Natural Sciences)*. 48(10): 56-63. (Q2)
- Somala, N., Senarat, S., Para, C., Jiraungkoorskul, W., Kaneko, G., Poonpet, T. and **Poolprasert, P.** 2020. SYSTEMIC ORGANIZATION OF *Tetraponera rufonigra* JERDON, 1851 (HYMENOPTERA: FORMICIDAE): HISTOLOGICAL OBSERVATION. *Serangga*, 25(1):53-67. (Q4)
- Boonyoung, P., Senarat, S., Kettratad, J., Jiraungkoorskul, W., Thaochan, N., Sing, K-W., Pongsakul, T. and **Poolprasert, P.** 2020. Mature gonadal histology and gametogenesis of the tortoise beetle *Aspidomorpha sanctaerucis* (Fabricius, 1792) (Coleoptera: Cassidinae: Chrysomelidae): Histological observation. *Songklanakarin J. Sci. Technol.* 42(4): 873-878. (Q2)

- Poolprasert, P.***, Senarat, S., Nak-eiam, S., Likhitrakarn, N. (2019). Molecular Phylogeny of Predatory Ladybird Beetles (Coleoptera: Coccinellidae) Inferred from COI Sequences. **Malaysian Journal of Applied Sciences**, 4(2), 10-18.
- Poolprasert, P.***, Mongkolchaichana, E., Senarat, S., Kettratad, J., Yenchum, W. and Angsirijinda, W. 2015. Light microscopic observations of the mesentero-proctodeal regions in *Catopsilla pomana* (Fabricius, 1758) (Lepidoptera: Pieridae). **Suranaree J. Sci. Technol.** 22(1): 93-103 (Q3).
- Thongporn, C. and **Poolprasert, P.** 2015. Phytochemical Screening and Larvicidal Activity of *Millingtonia hortensis* L.f. Flower Extract against *Aedes aegypti* Linn. **Kasetsart J. (Nat. Sci.)**. 49(4): 597-605. (Q4)
- Poolprasert, P.**, and Edgerly, J.S. 2014. Description of four new species of the genus *Ptilocerambia* Friederichs, 1923 (Embioptera: Ptilocerembiidae) from Thailand. **Zootaxa**. 3852 (3): 359-372. (Q2)
- Poolprasert, P.*** 2014. *Dachtylembia*, a new genus in the family Teratembidae (Embioptera) from Thailand. **Zootaxa**. 3779 (4): 456-462. (Q2)
- Senarat, S., Kettratad, J., **Poolprasert, P.**, Mongkolchaichana, E., Yenchum, W. and Angsirijinda, W. 2014. Histological and Histochemical Description of Mesentero-Proctodeal Regions in the Striped Blister Beetle, *Epicauta waterhousei* (Haag-Rutenberg, 1880) (Coleoptera: Meloidae). **Walailak J. Sci. & Tech.** 11(10): 851-856. (Q3)
- Rattanawanee, A., Duangpukdee, O. and **Poolprasert, P.***. 2013. Insect Diversity During Different Stages of Asiatic Elephant Dung Deterioration in Eastern Thailand. **Kasetsart J. (Nat. Sci.)**. 47(3): 387-397. (Q4)
- Poolprasert, P.*** 2012. The Embiopteran Genus *Oligotoma* Westwood, 1837 (Embioptera: Oligotomidae), with Three New Recorded Species from Thailand. **Kasetsart J. (Nat. Sci.)**. 46(3): 408-417. (Q4)