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Research:

1. Effect of *Nosema apis* on sugar and corn syrup consumption of *Apis mellifera* workers
2. Effect of SBTI and E-64 on the growth of *Apis mellifera* by larval rearing method

4. Employment

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5. Reviewer:

1. Journal of Insect Science
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   Session: Biology
   Session: Agricultural Science

6. Research areas

Honeybee Research:

- Ultrastructure, Histochemical and Histological Structure of Honeybees
- Honey bee Pheromones (Bioassay and Pheromone sensing)
- Effect of *Nosema* on experimental infection of Thai honeybees, Screening for natural product, in particular of extraction of propolis of stingless bees for controlling infection of Nosema in bees.
- Testing toxic substance on honeybee larvae by larval rearing method

- **Forensic entomology**:
  - Identification of blowfly in Thailand, effect of temperatures on developmental rate and time of each blowfly in Thailand in both constant temperatures and ambient temperature.
  - To generate isomorphen, isomegalen diagram of each species, and generate minimum threshold temperature of each species of blowfly in Thailand for serving the data for calculation of PMI.

7. Publications and Proceeding

Publications

Rasmidatta, A. , **Sripunya, G.** and Wongsiri, S. 1993. Ultrastructure of the compound eyes of *Apis florea*. ***Journal of Electron Microscopy Society of Thailand*** 7(2): 51-52.

Rasmidatta, A. , **Suwannapong, G.** Noiphrom, J. and Wongsiri, S. 1998. Ultrastructure of the antennal sensilla of *Apis florea*. ***Journal of Electron Microscopy Society of Thailand.***

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Proceeding

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8. Project and Thesis's advisor

No.	Student's name	Title
1	Miss Yaowalak Jirawangso	Morphological Study of the Compound Eyes and Flagellae of *Apis florea* and *Apis cerana* Queens.
2	Miss Weena treesandsri	Morphological Study of Compound Eyes and Flagellae of *Apis florea* and *Apis cerana* Workers.
3	Mr.Theerawee Janchana	Morphological Study of Compound Eyes and Flagellae of *Apis florea* and *Apis cerana* Drones.
4	Miss Tasanee Chaiyawong	Scanning Electron Microcopy Analysis of Honey Bee (*Apis nigrocincta*, *Apis cerana*, *Apis koschevnikovi* and *Apis mellifera*) Stings.
5	Miss Wipaporn Kittipot	Light Microscopic Study of the Compound Eyes of *Apis florea* Workers
6	Miss Jureeporn Noiphrom	Morphological Study of Antennal Flagellae of *Apis Florea* and *Apis andreniformis* Workers.
7	Mr. Paitoon Seanbualuang	Comparative Histochemical Structure of Hypopharyngeal Glands between *Apis andreniformis* Smith, 1858 and *Apis florea* Fabricius, 1787 Workers.
8	Miss Aunanong Wattanasupinyo	Pheromonal Activities of 1- Butyl-3 Methyl Acetate, Dibutyl Phtalate Nonadecane and 1- Octanol to *Apis cerana*, Fabricius, 1793 Foraging and Guardian Bees.
	Miss Saichon	Comparative Histochemical (Protein) Structure of

9	Chaiwongwattanakul	Hypopharyngeal Glands between *Apis cerana* Fabricius, 1793 and *Apis mellifera*, Linnaeus, 1758 Workers.
10	Mr. Kolayut Malakorn	Pheromonal Activities of 1 – Ecosanol, 2 – heptanol, Eicosane and Heneicosane to Foraging and Guardian Bees of *Apis mellifera*, Linnaeus, 1758.
11	Mr. Chanchai Chinokul	Pheromonal Activities of 1- Eicosanol, Eicosane, Heneicosane and 2- Heptanol to *Apis andreniformis* Smith, 1858 and *Apis florea* Fabricius, 1787 Foragers.
12	Mr. Tanyawat Tanasorn	Pheromonal Activities of 1- Eicosanol, Eicosane, Heneicosane and 2- Heptanol to *Apis cerana* Fabricius, 1793 Foragers.
13	Miss Saowanee Sermsook	Comparative Histochemical (Carbohydrate) Structure of Hypopharyngeal Glands between *Apis cerana* Fabricius, 1793 and *Apis mellifera*, Linnaeus, 1758 Workers.
14	Mr. prakasit Phuangphoo	Pheromonal Activities of the Mandibular Gland Pheromonal Compositions to *Apis mellifera*, Linnaeus, 1758 Foraging and Guardian Bees.
15	Miss Karnjana Kojay	Pheromonal Activities of 1- Butyl-3 Methyl Acetate, Dibutyl Phtalate Nonadecane and 1- Octanol to Foraging and Guardian Bees *Apis mellifera*, Linnaeus, 1758.
16	Mr. Surachai Suasaowarak	Comparative Histochemical Structure of mandibular Glands between *Apis cerana* Fabricius, 1793 and *Apis mellifera*, Linnaeus, 1758 Workers.
17	Miss tanaporn Pimubol	The Study of Bee Flora by Identification of Pollen from Honey and Bee Pollen of *Apis mellifera*, Linnaeus, 1758 at Tumbol Tawangpha, Aumpher Tawangpha, Nan Province, Thailand.
18	Miss natchanan Jansuri	The Study of Bee Flora by Identification of Pollen from the Midgut of *Apis florea* Fabricius, 1787 Foragers at Tumbol Tawangpha, Aumpher.
19	Mr. tanawat Yemor	The Study of Bee Flora by Identification of Pollen from the Midgut of *Apis cerana* Fabricius, 1793 Foragers at Tumbol Tawangpha, Aumpher Tawangpha, Nan Province, Thailand.
20		The Study of Bee Flora by Identification of Pollen from the Midgut of *Apis dorsata* Foragers at Tumbol

	Mr. samrit maksong	Tawangpha, Aumpher Tawangpha, Nan Province, Thailand.
21	Mr. Pichit Kamburi	The Study of Pollen Source Bee Flora in Thawangpha District, Nan Province be Pollen loads Analysis.
22	Miss Pornchaiya Sangsartra	Protein Assay of Bee Floral pollens
23	Miss Wirongrong Kampiranon	Protein Assay of Bee Pollens from *(Apis cerana* Fabricius, 1793) and *(Apis florea* Fabricius, 1787) Hives.
24.	Miss patchareeya phroma	Protein Assay of pollens of Bee Flora in Burapha University
25	Miss Pornsiri Komtanakornkongsiri	The Effects of *Nosema ceranae* on Protein Contents of the Hypopharyngeal Glands, Mortality and Infectivity of *Apis cerana* Workers.
26.	Miss Sudara Tongyam	The Effects of *Nosema ceranae* on Protein Contents of the Hypopharyngeal Glands, Mortality and Infectivity of *Apis cerana* Workers.
27.	Mr. Jatupon Chankong	Effect of ambient temperature on developmental rate of forensically blowfly, *Chrysomya megacephala*
28.	Miss Natchanan Jansuri	Effect of constant temperatures on developmental rate of forensically blowfly, *Chrysomya megacephala* and *Chrysomya rufifacies*

Doctoral Dissertation's advisor

1.	Mr. samrit maksong	Effect of propolis on experimental infection of *Apis florea* with *Nosema ceranae* (microsporidian)
2.	Mr. tanawat Yemor	Effect of propolis on experimental infection of Asiatic honeybee, *Apis cerana*, 1793 with Nosema spores isolated from *Apis florea* Fabricius 1787

9. Teaching

Graduate courses

Advanced Cell and molecular Biology

Medical entomology

Selected topic in Biological science (Beekeeping and management)

Animal microtechnique

Biology for teacher I and II

Selected topic in Zoology (Forensic entomology)

Undergraduate courses

Histology

Cell Biology

Cell and Molecular Biology

Vertebrate zoology

General Biology

General Biology Laboratory

Medical biology Laboratory

Medical biology

Developmental biology

Histochemistry

Animal Histotology and physiology

Selected topic in biology (Bee Biology and Beekeeping)

Selected topic in Zoology (Forensic Entomology)

10. Academic service

1993- current	Department of Biology, Faculty of Science committee
2003-2007	Co organizer, the promotion of academic Olympiad (major biology) and development of Science education.
2000-2007	Program of Biological Science admission committee
2006-2007	Chairman, program in Biological Science
1993-2005	Head of Science and technology exhibition, Science week, Faculty of Science, Burapha University.

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