

# TIPWAN SUPPASAT

## *Curriculum Vitae*



### **Assistant Professor Dr. Tipwan Suppasat**

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Date of Birth: 12 October 1977; Place of Birth: Chantaburi, Thailand

## **Education**

- 2003–2007      Ph.D. in Biological Sciences (Entomology)  
Dissertation title: Genetic relationships between two honey bees (*Apis mellifera* Linnaeus, 1758 and *Apis cerana* Fabricius, 1753) and Varroa mites in Thailand. Prof.Dr. Siriwat Wongsiri (Advisor), Assoc.Prof.Dr. Deborah R. Smith and Assist.Prof.Dr. Sureerat Deowanish (Co-advisor), Department of Biology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand , July 2007
- 2000–2002      M.S. in Zoology.  
Thesis title: Alkaline Phosphatase Activity in Developmental Stages of Honey bee Worker *Apis mellifera* Linnaeus, 1758. Prof.Dr. Siriwat Wongsiri (Advisor) and Dr. Chanpen Chanchao (Co-advisor) Department of Biology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand , July 2002
- 1996–1999      B.S. in Biology, Department of Biology, Chulalongkorn University, Bangkok, Thailand, July 2000  
Project title: A study on morphological change of reproductive organs of *Apis cerana* Fabricius, 1793 during developmental period

## **Professional and Teaching Experience**

- 2007-Current      Head of Biology Program, School of Science, University of Phayao, Phayao, Thailand
- 2007-Current      Lecturer in Biology Program, School of Science, University of Phayao, Phayao, Thailand
- 2003-2005      Teaching Assistant, Department of Biology, Chulalongkorn University, *Biological Control and Apiculture*

## Awards and Fellowships

- 2021-2022 **Agricultural Research Development Agency (Public Organization); ARDA**  
“Breeding of *Apis cerana indica* hybrid bees for apiculture in drought area, Phayao Province” (Project leader : 60%)
- 2021-2022 **Fundamental Fund ; FF**
- “Morphology and Ultrastructure of Hypopharyngeal and Intramandibular glands of Thai-stingless bees” (Project leader : 70%)
  - “Biogeography and diversity of *Apis cerana indica* based on wing morphometric and molecular markers: mitochondrial DNA and microsatellite markers” (Project leader : 80%)
  - “Breeding and Natural Colony Management of *Apis cerana* Fabricius, 1758 and its Hybrids in Safety Agriculture, Phayao Province” (Project leader : 100%)
- 2020-2021 **Agricultural Research Development Agency (Public Organization) ; ARDA**  
“Buckfast Bee as Sources for Thai Honey Quality Enhancement”  
(Cooperation with Ubon Ratchathani Rajabhat University : 15%)
- 2018-2019 **National Research Council of Thailand Grant, University of Phayao**  
“Thai-stingless bees pollen foraging activity by different body size”  
(Project leader : 80%)
- 2015-2017 **Agricultural Research Development Agency (Public Organization) ; ARDA**  
“Development of *Apis cerana* hybrid bee strains for organic farming systems” (Co-operation with Maejo University 30%)
- 2014-2015 **National Research Council of Thailand Grant, University of Phayao**  
“Biodiversity database of stingless bees on the basis of wing geometric and DNA barcode of COI gene analysis” (Project leader : 60%)
- 2008-2012 **Thailand Research Fund ;TRF**  
“Genetic diversity and differentiation of parasitic bee mites population (Genus *Tropilaelaps*) in Thailand” (Project leader : 80%)
- 2007 **The Saito Fund for new Entomologist**
- 2001-2005 **The Commission on Higher Education Scholarship for Naresuan University**
- 2005-2007 **The Royal Golden Jubilees Ph.D., Thailand Research Fund**
- 2000-2001 **The Asahi Glass Foundation through Dr.Chanpen Chanchao**
- 2001-2002 **The Ministry of University Affairs (MUA)-CU Thesis Grant for Chulalongkorn University**
- 2000-2002 **Graduate School Fund of Chulalongkorn University**
- 1997-2000 **Chulalongkorn University Scholarship for Basic Sciences Undergraduate Student in Biology, Faculty of Science, Chulalongkorn University**

## Service

- 2010-2022 Head of Program in Biology, School of Science, University of Phayao

## Publications

- Nimprom, K. Jansamuk, S. and **Suppasat, T.** (2022). Geometric morphometric on forewing of *Apis mellifera* and Buckfast bee population in Thailand. *Burapha Science Journal*. 27(2): XX-XX. (Manuscript accepted)
- MinOo, H., Kanjanaprachaoat, P., **Suppasat, T.** and Wonsiri, S. (2020). Surveillance of European honeybee subspecies distribution in Chiang Mai, Thailand. **International Journal of Veterinary Sciences and Animal Husbandry**. 5(2): 04-07. February.
- Bootnon, P., Thongsri, K., Runsrri, M. and **Suppasat, T.** (2019). Relation between Body Weight of Stingless bee Foragers and its Pollen Loads from Phayao Province. **The Proceeding of the 11<sup>th</sup> Science Research Conference**, Faculty of Science, Srinakharinwirot University, Bangkok. Vol.1: 476-485.
- Suppasat, T.** and Wonsiri, S. (2018). Morphometric and Genetic Variation of *Tropilaelaps* Mites Infesting *Apis dorsata* and *A. mellifera* in Thailand. **Journal of Apiculture**. 33(4): 227-237. December.
- MinOo, H., Kanjanaprachaoat, P., **Suppasat, T.** and Wonsiri, S. (2018). Honey Bee Virus Detection on *Tropilaelaps* and *Varroa* Mites in Chiang Mai Thailand. *Journal of Apiculture*. 33(2): 77-81. June.
- Hanklang, T., Khamkaew, S. and **Suppasat, T.** (2018). Comparative Morphology of Stingless bees Wing between Pollen and Resin Foragers in Genera *Homotrigona*, *Tetrigona* and *Tetragonula*. **The Proceeding of the 10<sup>th</sup> Science Research Conference**, Faculty of Science, Mahasarakram University, Mahasarakram province. B1187-194.
- Chaiyasis, K., Bodeerat, N., Warrit, N and **Suppasat, T.** 2016. Morphometric variation of wing in Genus *Tetrigona*. **The Proceeding of the 8<sup>th</sup> Science Research Conference**, University of Phayao, Phayao. <http://www.src8.up.ac.th/proceedingsrc8/รวมกลุ่มที่-2-ชีววิทยา-28-8-59.pdf>, 127-133.
- Sangsawang, B., Hongyon, S. and **Suppasat, T.** 2016. Wing morphological analysis of *Tetragonilla collina* population from natural colonies, have several nest entrance in the different nesting area. **The Proceeding of the 8<sup>th</sup> Science Research Conference**, University of Phayao, Phayao. <http://www.src8.up.ac.th/proceedingsrc8/รวมกลุ่มที่-2-ชีววิทยา-28-8-59.pdf>, 369-375.
- Rodkasikam, K., Mukda, S., Wittayarat, A. and **Suppasat, T.** 2016. Stingless bee pollen in 3 genera (*Homotrigona*, *Tetrigona* and *Tetragonula*) foraging. **The Proceeding of the 8<sup>th</sup> Science Research Conference**, University of Phayao, Phayao. <http://www.src8.up.ac.th/proceedingsrc8/รวมกลุ่มที่-2-ชีววิทยา-28-8-59.pdf>, 376-382.
- Suppasat, T.** and Boonhin, M. 2014. Wing variation in *Tetragonilla collina* based on morphometric and geometric analysis. **The Proceeding of the 4<sup>th</sup> Conference on Taxonomy and Systematics in Thailand**. Naresuan University, Pithsanulok <http://www.sci.nu.ac.th/tst4/>, 37-44.

## Presentations

1. **Suppasat, T.**, Chanchao, C. and Wongsiri, S. December 9-11, 2002. Alkaline phosphatase in *Apis mellifera*: Enzyme activity and localization. *7th Biological Science Graduate Congress*. Chulalongkorn University, Bangkok, Thailand. (Poster presentation)
2. **Suppasat, T.**, Deowanish, S. and Wongsiri, S. February 23-27, 2004. Variation in Mitochondrial DNA of *Apis mellifera* in Thailand. *7th Asian Apicultural Association Conference*. University of The Philippines Los Baños. College, Laguna, Philippines. (Poster presentation).
3. **Suppasat, T.**, Deowanish, S. and Wongsiri, S. December 6-18, 2004. Variation of *Apis mellifera* Linnaeus, 1753 Subspecies in Thailand Base on COI-COII intergenic Region at Mitochondrial DNA. *9th Biological Science Graduate Congress*. Chulalongkorn University Bangkok, Thailand. (Poster presentation).
4. **Suppasat, T.**, Deowanish, S., Smith, D. R., Warrit, N. and Wongsiri, S. November 30-December 2, 2005. Genetic variation of *Varroa* mites infesting on honey bees in Thailand. *10th Biological Science Graduate Congress*. National University of Singapore (NUS), Singapore. (Oral presentation).
5. **Suppasat, T.**, Smith, D. R., Deowanish, S. and Wongsiri, S. July 30 - August 5, 2006. Analysis of *Apis mellifera* Linnaeus, 1753 mitochondrial DNA variation in Thailand. *IUSSI Congress XV*. Washington D.C., USA. (Poster presentation).
6. **Suppasat, T.**, Smith, D. R., Deowanish, S. and Wongsiri, S. June 28-30, 2007. Genetic diversity of two honey bees (*Apis mellifera* Linnaeus, 1758 and *A. cerana* Fabricius, 1753) in Thailand. *Honey Bee Biology: Bee Breeding, Queen Rearing and Artificial Insemination*. Mahasarakham University, Thailand. (Oral presentation).
7. **Suppasat, T.**, Smith, D. R., Deowanish, S. and Wongsiri, S. December 17-19, 2007. Genetic diversity of *Apis cerana* from Thailand examined by TE-AFLP and AFLP. *The 12th Biological Science Graduate Congress*. University of Malaya, Kuala Lumpur, Malaysia. (Poster presentation).
8. **Suppasat, T.**, Smith, D. R., Deowanish, S. and Wongsiri, S. May 16-17, 2008. Genetic Relationships Between Two Honey Bees (*Apis mellifera* Linnaeus, 1758 AND *Apis cerana* Fabricius, 1753) AND *Varroa* Mites In Thailand. Bees and Bee Products. Chiangmai University, Chiangmai, Thailand. (Oral presentation).
9. **Suppasat, T.**, Deowanish, S., Smith, D. R., Warrit, N. and Wongsiri, S. Nov 1-4, 2008. Genetic Relationships between two honey bees (*Apis mellifera* Linnaeus, 1758 AND *Apis cerana* Fabricius, 1753) and *Varroa* Mites In Thailand. *The 9th Asian Apicultural Association (AAA) Conference*. Hangzhou, China. (Oral presentation).
10. **Suppasat, T.**, Panakwa, K. and Wongsiri, S. Tropiclaelaps mites in Thailand. May 2-4, 2011. *The 1st Conference on Taxinomy and Systematics in Thailand*. Naresuan University, Pithsanulok. (Poster Presentation)
11. **Suppasat, T.** and Naree, T. Morphology of 3 species of stingless bees : *Trigona* (*Homotrigona*) *fimbriata*, *T. (Tetragonilla) collina* and *T. (Lepidotrigona) terminata*. May 2-4, 2011. *The 1st Conference on Taxinomy and Systematics in Thailand*. Naresuan University, Pithsanulok. (Poster Presentation)

12. **Suppasat, T.** Somsak, P. Warrit, N. and Deowanish, S. May 11-13, 2013. Wing morphological variation of *Tetragonula* stingless bees in Thailand. *The 3<sup>rd</sup> Conference on Taxonomy and Systematics in Thailand*. Chulalongkorn University, Bangkok. (Oral Presentation)
13. **Suppasat, T.**, Meechang, S., Mungtong, R. Saetae, A. and Chansingkhorn, P. May 25-27, 2015. Classification of Stingless bee based on wing morphometric analysis. *The 5<sup>th</sup> Conference on Taxonomy and Systematics in Thailand*. Kasetsart University, Bangkok. (Poster Presentation)
14. Dokrak, K., Kosento, N., Tumsri, T. and **Suppasat, T.** March 30-31, 2558. The study of morphological variation of *Lepidotrigona* spp. *The 7<sup>th</sup> Science Research Conference*, Naresuan University, Pithsanulok. (Poster Presentation)
15. Kongkaew, O., Sisamurt, A. and **Suppasat, T.** March 30-31, 2558. Morphometric analysis of *Tetragonula* population in Thailand. *The 7<sup>th</sup> Science Research Conference*, Naresuan University, Pithsanulok. (Poster Presentation)
16. Saetae, A., Chansingkhorn, P. and **Suppasat, T.** March 30-31, 2558. Variation of stingless bee *Tetragonula* spp. Population by using morphometric and DNA barcoding analysis. *The 7<sup>th</sup> Science Research Conference*, Naresuan University, Pithsanulok. (Poster Presentation)
17. Luangchai, W., Janchusri, P., Jitaree, J. and **Suppasat, T.** March 30-31, 2558. Genetic diversity of DNA barcode in five genera stingless bees (*Geniotrigona*, *Homotrigona*, *Lepidotrigona*, *Tetragonilla* and *Tetrigona*). *The 7<sup>th</sup> Science Research Conference*, Naresuan University, Pithsanulok. (Poster Presentation)
18. **Tipwan Suppasat**, Natapot Warrit, Sereerat Deowanish and Siriwat Wongsiri. 3-4 June 2015. DNA Barcode Analysis of Thai-Stingless Bees. *The Princess Maha Chakri Sirindhorn Congress (The 5<sup>th</sup> Interdisciplinary Day Conference)*. IMPACT Forum, IMPACT Muang Thong Thani, Nonthaburi, Thailand. (Poster Presentation)

## References

1. Professor Dr. Siriwat Wongsiri, Division of Graduate School, Maejo University  
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2. Assistant Professor Dr. Sureerat Deowanish, Department of Biology, Faculty of Science, Chulalongkorn University. E-mail: [dsureera@chula.ac.th](mailto:dsureera@chula.ac.th)
3. Associate Professor Dr. Deborah Smith, 3038 Haworth Hall, Program in Entomology, Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS, USA 66045. E-mail: [debsmith@ku.edu](mailto:debsmith@ku.edu)
4. Dr. Natapot Warrit, Department of Biology, Faculty of Science, Chulalongkorn University. E-mail: [nattapot.w@chula.ac.th](mailto:nattapot.w@chula.ac.th)
5. Associate Professor Preeyanan Sanpote, Dean of school of Science, University of Phayao. E-mail: [preeyanan9@hotmail.com](mailto:preeyanan9@hotmail.com)

## Website Links

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Scholar.google Link : <https://scholar.google.com/citations?hl=en&user=0JW5JSoAAAAJ>