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Detailed Curriculum Vitae

Assistant Professor Prapassorn Bussaman, Ph. D.
Department of Biotechnology
Faculty of Technology
Mahasarakham University
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EDUCATION:

- B.Sc. (Biology) Srinakarintarawirot University, Maha Sarakham, Thailand
- M.Sc (Biotechnology) King Mongkut's Institute of Technology Ladkrabang, Thailand
- Ph.D. (Biotechnology) Khon Kean University, Thailand

SPECIFIC AREAS OF RESEARCH:

- Biological control of insect pests using EPNs and their symbiotic bacteria
- Mushroom production technology
- Tissue culture

ON-GOING RESEARCHES:

- Efficacy of plant extracts on mites and insects
- EPNs and their symbiotic bacteria and its potential used as biological control agent

PUBLICATIONS:

1. **Bussaman, P.**, Sermswan, R.W. and P.S. Grewal. 2006. Toxicity of the entomopathogenic bacteria *Photorhabdus* and *Xenorhabdus* to the mushroom mite (*Luciaphorus* sp.; Acari: Pygmephoridae). ***Biocontrol Science and Technology***, 16(3): 245-256. **Impact factor** = 0.892.

2. **Bussaman, P.,** Sobanboa, S., Grewal, P.S. and A. Chandrapatya**.** 2009. Pathogenicity of additional strains of *Photorhabdus* and *Xenorhabdus* (Enterobacteriaceae) to the mushroom mite *Luciaphorus perniciosus* (Acari: Pygmephoridae). ***Applied Entomology and Zoology***, 44(2): 293-299. **Impact factor (2008)** = 0.699.

3. Namsena, P., **Bussaman, P.** and A. Chandrapatya. 2009. Efficacy of *Xenorhabdus* sp. (X1) mutant on mushroom mite (*Luciaphorus* sp.). ***Asian Journal of Food and Agro-Industry***, Special Issue 1:145-151.

4. Sobanboa, S., **Bussaman,P.** and A. Chandrapatya. 2009. Efficacy of *Xenorhabdus* sp. (X1) as biocontrol agent for controlling mushroom mite (*Luciaphorus* perniciosus). ***Asian Journal of Food and Agro-Industry*****,** 2:145-154.

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5. **Bussaman, P.,** Sermswan, R.W. and A. Chandrapatya. 2011. Genetic diversity of mushroom mite (*Luciaphorus* sp.) infesting cultivated mushrooms in the Northeast of Thailand. ***African Journal of Agricultural Research***, 6(24): 5438-5445. **Impact factor = 0.263.**

6. **Bussaman, P.**, Sa-Uth, C., Rattanasena, P. and A. Chandrapatya. 2012. Acaricidal activities of whole cell suspension, cell-free supernatant, and crude cell extract of *Xenorhabdus stokiae* against mushroom mite (*Luciaphorus* sp.). ***Journal of Zhejiang University SCIENCE B***, 13(4):261-266. **Impact factor (2011)** = 1.099.

7. **Bussaman, P.**, Namsena, P., Rattanasena, P. and A. Chandrapatya. 2012. Effect of crude leaf extracts on *Colletotrichum gloeosporioides* (Penz.) Sacc. ***Phyche,*** Article ID309046, 6 pages.

8. **Bussaman,P.,** Sa-uth, C., Rattanasena, P. and A. Chandrapatya. 2012. Effect of crude plant extracts on Mushroom mite, *Luciaphorus sp.* (Acari: Pygmephoridae). ***Phyche,***
Article ID309046, 8 pages.

9. Rattanasena, P. and **P. Bussaman**. (2012) Antioxidant and antibacterial activities of vegetables commonly consumed in Thailand. *Proceeding publication in conference on Natural Products for Health and Beauty (NATPRO 4),* Chiang Mai, 28-30 November 2012.

10. **Bussaman, P.**, Rattanasena, P. and P. Namsena. (2012) Evaluation of storage conditions and extraction solvents for antioxidant properties in herbs of Zingiberaceae. *Proceeding publication in conference on Natural Products for Health and Beauty (NATPRO 4)*, Chiang Mai, 28-30 November 2012.

11. Vongkhamchanh, B., Rattanasena, P., Suksringarm, J. and **P. Bussaman**. (2012) Potential of crude plant extracts against cattle tick, *Rhipicephalus microplus* (Acari: Ixodidae). *Proceeding publication in conference on Natural Products for Health and Beauty (NATPRO 4),* Chiang Mai, 28-30 November 2012.

12. Boonlail, W., Rattanasena, P., Suksringarm, J. and **P. Bussaman**. (2012) Efficacy of plant extracts for controlling *Colletotrichum gloeosporioides* (Penz.) Sacc. *Proceeding publication in conference on Natural Products for Health and Beauty (NATPRO 4),* Chiang Mai, 28-30 November 2012.

13. Rattanasena, P**.** and **P. Bussaman**. (2012) Antioxidant activities and levels of total phenolic compounds and **γ** aminobutyric acid of extracts derived from Thai pre-germinated brown rice and pre-germinated rough rice. *Proceeding publication in Asian Food Heritage Forum*, Bangkok, 20-21 August 2012.

14. Rattanasena, P. and **P. Bussaman**. (2013) Antioxidant activities and levels of total phenolic compounds and **γ** aminobutyric acid of extracts derived from Thai pre-germinated brown rice and pre-germinated rough rice. *Srinakharinwirot Science Journal* (Manuscript accepted).

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Conferences

International Conferences

1. **Bussaman, P.**, Chandrapatya, A., Sermswan, R.W. and P.S. Grewal. Morphology, biology and behavior of the genus Pygmephorus (Acari: Heterostigmata) a new parasite of economic edible mushroom. In "**2004 OARDC Annual Conference**" (April 29, 2004). Conference Hall, Shisler Conference Center, OARDC, Wooster, Ohio, USA.

2. **Bussaman, P.**, Chandrapatya, A., Sermswan, R.W. and P.S. Grewal. Morphology, biology and behavior of the genus Pygmephorus (Acari: Heterostigmata) a new parasite of economic edible mushroom. In "**XXII International Congress of Entomology**" (August 15-21, 2004). Brisbane, Australia.

3. **Bussaman, P.**, Gioconda, G. and R.W. Sermswan. Random Amplified Polymorphic DNA (RAPD) For Classification of *Luciaphorus* sp. : A New Parasite of Economic Mushrooms. In "**The Fifth Princess Chulabhorn International Science Congress**" (August 16-20, 2004). Bangkok, Thailand.

4. **Bussaman, P.**, Sermswan, R.W. and P.S. Grewal. The efficacy of the entomopathogenic bacteria Photorhabdus and Xenorhabdus to the mushroom mite. In "**The Forth International Congress on Biopesticide**" (February 13-18, 2005). Imperial Mae Ping Hotel, Chiang Mai, Thailand.

5. **Bussaman,P.** Sobanboa, S. and A. Chandrapatya. Evaluation of the *Xenorhabdus nematophila* as biocontrol agent for controlling mushroom mite (*Luciaphorus* sp.). In 20th Annual Meeting and International Conference of the Thai Society for Biotechnology "TSB 2008: Biotechnology for Global Care" (October 14 – 17, 2008). Taksila Hotel, Mahasarakham, Thailand.

6. **Bussaman, P.**, Sa-Uth, C., Tonsao, A., Sawangkeaw, A. and P. Rattanasena. Lactic Acid Bacteria from Thai Fermented Meat Products as Biocontrol Agents against Anthracnose Disease. In "**The International Conference on Agriculture and Agro-Industry (ICAAI2010)**: Food, Health and Trade" (November 19-20, 2010). Chiang Mai, Thailand.

7. **Bussaman, P.**, Rattanasena, P. and A. Chandrapatya. Viability and efficacy of freeze-dried symbiotic bacteria, Xenorhabdus sp., against mushroom mites. In "**The 4th Congress of European Microbiologists (FEMS 2011)**" (June 26-30, 2011). Geneva, Switzerland.

8. Rattanasena, P. and **P. Bussaman**. Antioxidant activities and levels of total phenolic compounds and aminobutyric acid of extracts derived from Thai pre-germinated brown rice and pre-germinated rough rice In *2012 Asian Food Heritage Forum "**Harmonizing Culture, Technology and Industry**"* (August 20-21, 2012). Bangkok, Thailand.