

# Curriculum Vitae



## 1. Personal Information

Name: **Assist. Prof. Dr. Pattarawadee Sumthong Nakmee**  
ID card number: 310 210 1297 XXX  
Birthday: 22 August 1976  
Gender: Female  
Nationality: Thai  
Race: Thai  
Religious: Baddish  
Home address: 35/1 Moo 11, Soi Ekachai 8, Ekachai Rd.,  
Bangkhunthien, Jomthong, Bangkok, 10150, Thailand

## 2. Position: Assistant Professor

3. **Office work:** Faculty of Science at Sriracha  
Kasetsart University, Sriracha campus  
199 Moo 6, Sukumvit Road, Tungsukla, Sriracha  
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## 5. Administration

: Dean of Faculty of Science at Sriracha, Kasetsart University Sriracha Campus, Chonburi, Thailand from 29<sup>th</sup> January 2019- present.

: Assistant to the President in International Affairs at Sriracha Campus from 29 December 2017-2018.

: Assistant to the Vice President Sriracha Campus in Academic affairs and International Affairs from February 2011-February 2016.

## 6. Education background:

Year	degree	subject	University
2007	Doctoral degree	PhD in Biodiversity and natural Products	Leiden University, The Netherlands
2000	Master degree	M.Sc. in Botany	Kasetsart University, Bangkok, Thailand
1997	Bachelor degree	B.Sc. in Biology	Burapha University, Chonburi, Thailand

## 7. Teaching subjects:

Bachelor degree program in Science teaching courses: Principle of Biology, General Botany and Thai Herbs and their Benefits

Master degree program in Natural Products Science and Technology teaching courses: Plant Natural Products, Techniques on Extraction, Separation and Analysis of Natural Products, Biological Activities of Natural Products

8. **Book writing:** Pattarawadee Sumthong Nakmee, Principle of Biology (*in Thai*), Kasetsart University Extension and Training Office, 2014, 326p.

9. **Research Interested:** Plant natural products, Plant and microbial Interactions.

10. **Research projects:**

- 10.1 Evaluation of active compounds and heavy metals in *Cannabis sativa* L. extract for medical used. (*Kasetsart University Research and Development Center grant support in 2020*)
- 10.2 Alternative cleaning reagents substitute chlorine for antimicrobial activity in sericulture. (*The Queen Sirikit Department of Agriculture financial support from 2019-2020*)
- 10.3 Screening of Protease and Lipase Producing Microorganisms form Bio-Fermented Liquid for Washing Detergent (*2018*).
- 10.4 Research and development of plant bark extracts for traditional jellyfish pickle. (*research grant supported from National Research Council of Thailand 2017-2018*)
- 10.5 Separation of bioactive compounds from *Alpinia galanga* rhizome extract by fast centrifugal partition chromatography. (*ASEA UNINET Scholarship 2015 to do research in Austria*)
- 10.6 Antifungal Plant Extracts for Application in Sericulture. (*research grant supported from National Research Council of Thailand 2012-2014*)
- 10.7 Antimicrobial Activity from *Xylia xylocarpa* Sawdust Extract for Application in Wood and Wood Composite Preservation. (*research grant supported from National Research Council of Thailand 2009-2011*)
- 10.8 Environmental Research and Data Base Management around RIL industrial area, Mabtaput, Rayong, Thailand. (*research grant supported from PTT and SCG Chemicals Co., Ltd. 2009-2012*)
- 10.9 Utilization of Bed Plants for Wastewater Treatment in Kasetsart University Sriracha Campus. (*research grant supported from Office of the Royal Development Projects Boards, Thailand 2009-2012*)
- 10.10 Trend in Acid Rain Impact on Diversity of Planktons in Bangphra Reservoir Chonburi Province (*research grant supported from Ministry of Resources and Environment 2008*).
- 10.11 The Effect of Allelochemical from *Melaleuca quinquenervia* on Growth of Weeds in *Zea mays* Crop. (*research grant supported from National Research Council of Thailand 2007-2008*)
- 10.12 Antifungal Compounds from Teak (*Tectona grandis*). (*PhD research project 2003-2007 grant supported by the Office of the Higher Education Commission*)

11 **Article Publications:**

- 11.1 Moondee, P. S. Khuntong and P. S. Nakmee. 2020. Using of *Echinodosus cordifolius* for Wastewater Treatment in Meat Processing. Page EC111-114. In **PACCON Conference**. IMPACT, Nonthaburi, Thailand, February 13-14, 2020.
- 11.2 Khuntong, S. K. Kamanake, T. Jongdaeng, J. Tanyasit and P. S. Nakmee. 2020. Lipase Digestion by Indigeneous Bacteria for Used Frying Oil-Based Biodiesel Synthesis. Page 37-42. In **Asean Bioenergy and Bioeconomy Conference**, BITEC, Bangkok, Thailand, September 23-26, 2020.

- 11.3 Waan Phethwan and **Pattarawadee Sumthong Nakmee**. 2020. Fractionation and screening for antimicrobial activities from *Peltophorum dasyrhachis* (Mig.) Kurz and *Dialium cochinchinense* Pierre bark extracts. Conference proceeding in **The 4<sup>th</sup> KU SRC Annual Conference**, Kasetsart University, Sriracha, Chonburi, Thailand, 28<sup>th</sup> August, 2020.
- 11.4 Nuttanan Ramtim, Papawee Pongmaleepradub, Manita Thongma, Chatchanaporn Khampa and Pattarawadee Sumthong Nakmee. Screening of Protease and Lipase Producing Microorganisms from Bio-Fermented Liquid for Dish Washing Detergent. Conference **proceeding** in The 10<sup>th</sup> Science Research Conference, May 24-25, 2018.
- 11.5 Pattarawadee Sumthong Nakmee, Wongsornram, K., Khuntong, S. Impact of acid deposition on plankton population variability in the Bangphra Reservoir supply, Chonburi Province, Thailand. Conference **proceeding** in The 4<sup>th</sup> EnvironmentAsia International Conference. June, 21-23, 2017; 48-64.
- 11.6 Pattarawadee Sumthong Nakmee, Techapinyawat, S. and Ngamprasit, S. Comparative potentials of native arbuscular mycorrhizal fungi to improve nutrient uptake and biomass of *Sorghum bicolor* Linn., **Agr. Nat. Resour.** 2016; 50: 173-178.
- 11.7 Pattarawadee Sumthong Nakmee, Khuntong, S. and Nuengchamnon, N. Phytochemical constituents with antimicrobial and antioxidant activities from *Xylia xylocarpa* (Roxb.) Taub. sawdust extracts, **Chiang Mai J. Sci.** 2016; 43(1): 11-21.
- 11.8 Pattarawadee Sumthong Nakmee, Techapinyawat, S. and Ngamprasit, S. *Melaleuca cajuputi* leaf and branch extracts decreased weeds growth and weeds density in corn field, **Asia Pacific J. Sus. Agri. Food & Energy.** 2014; 2(3): 22-26.
- 11.9 Khuntong, S., Tangjitcharoenkun, J., Nakmee, P.S., Inhibition of canker disease in selected Citrus plant by *Gelonium multiflorum* extract, **Asia Pacific J. Sus. Agri. Food & Energy.** 2014; 2(3): 11-16.
- 11.10 Pattarawadee Sumthong Nakmee, J Tangjitjaroenkun and J Preedee. 2013. Ability of eleven Thailand herbs to prevent silkworm fungal infections. **Planta Med.** 13 (79): PL14.
- 11.11 Pattarawadee Sumthong, R. R. Romero-Gonzalez and R. Verpoorte. 2008. Identification of Anti-wood rot Compounds in Teak (*Tectona grandis* L.f.) Sawdust Extract. **J. Wood Chem. Technol.** Oct, 28: 247-260.
- 11.12 Pattarawadee Sumthong, R. A. Damveld, Y. H. Choi, M. Arentshorst, A.F.J. Ram, C.A.M.J.J. van den Hondel and R. Verpoorte. 2006. Activity of quinines from Teak (*Tectona grandis*) on fungal cell wall stress. **Planta Medica.** May, 72: 943-944.
- 11.13 Sombun Techapinyawat, P. Pakkong, Poonpilai Suwannarit and P. Sumthong. Effects of arbuscular mycorrhiza and phosphate fertilizer on phosphorus uptake of vetiver using nuclear technique. 2002. **Kasetsart J. (Natural Sciences).** Oct-Dec, 36(4), 381-391.
- 11.14 Pattarawadee Sumthong, N. Sinbuathong, P. Pakkong, P. Suwannarit and Sombun Techapinyawat. Selection of effective vesicular-arbuscular mycorrhizal fungi on growth and nutrient uptake of vetiver (*Vetiveria zizanioides*). 2001. **Thai J. Agri. Sci.** Jan-Apr, 34(1-2), 91-99.

## 12 Oral Presentations:

- 12.1 *Melaleuca cajuputi* leaf and branch extracts decreased weeds growth and weeds density in corn field. 17<sup>th</sup>-19<sup>th</sup> September 2014, Oral Presentation at

International Conference Sustainable Agricultural, Food and Energy, Bali, Indonesia.

- 12.2 Antimicrobial and antioxidant activities from *Xylia xylocarpa* (Roxb.) Taub. wood extract. 15<sup>th</sup>-18<sup>th</sup> December, 2011, Oral Presentation at The International Symposium in medicinal and aromatic plants, Chiangmai, Thailand.
- 12.3 Discovery of antifungal compounds from plant waste material and future perspective. 11<sup>th</sup>-16<sup>th</sup> December, 2011, Oral Presentation at The International Conference on Biopesticides VI (ICOB 6), Chiangmai, Thailand.
- 12.4 Arbuscular Mycorrhizal fungi combination with Phosphate fertilizer levels enhanced growth and nutrients uptake of Sesame (*Sesamum indicum* L.). 18<sup>th</sup>-24<sup>th</sup> September, 2010, Oral Presentation at 1<sup>st</sup> Asian Conference on Plant-Microbe Symbiosis and Nitrogen Fixation (1<sup>st</sup> APMNF), Miyazaki, Japan.
- 12.5 Antifungal Compounds from Teak (*Tectona grandis*). October 6<sup>th</sup>, 2006, Oral Presentation at 16<sup>th</sup> Symposium ALW-discussion group "Secondary Metabolism in Plant and Plant Cell", Leiden. The Netherlands.
- 12.6 Antifungal Compounds from Teak (*Tectona grandis*). June 28<sup>th</sup> -July 1<sup>st</sup>, 2006, Oral Presentation at PSE (Phytochemical Society of Europe) symposium, Olomouc, Czech Republic.
- 12.7 Effects of vesicular-arbuscular mycorrhiza and phosphate fertilizer on phosphorus uptake of vetiver using nuclear technique. 10<sup>th</sup> -21<sup>th</sup> September 2001, Oral Presentation at IAAE (Institute for Application of Atomic Energy), Beijing, China.

### 13 Poster Presentations:

- 13.1 Poster presentation entitles "Ability of eleven Thailand herbs to prevent silkworm fungal infections" in 61st International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), 1<sup>st</sup> -5<sup>th</sup> September 2013, Germany.
- 13.2 Poster presentation entitles "Effect of Arbuscular Mycorrhizal fungi on growth and nutrient uptake of *Sorghum bicolor* Linn. The 1st International Conference on Corn and Sorghum Research and the 34th National Corn and Sorghum Research Conference, 8<sup>th</sup> -10<sup>th</sup> April 2009, Pattaya, Chonburi, Thailand.
- 13.3 Poster presentation entitles "Antifungal compounds from Teak (*Tectona grandis* L.f.)" in 4<sup>th</sup> International Conference on Natural Product from 28<sup>th</sup> – 31<sup>th</sup> May 2006 at Leysin, Switzerland.
- 13.4 Poster presentation entitles "Screening for anti-wood rot activities of Cannabis extracts" in Symposium of DRC-LST and BSDL on 2<sup>nd</sup>, November 2005 at Delft University of Technology, The Netherlands.
- 13.5 Poster presentation entitles "Antifungal Activities from tropical sawdust hardwoods" in XVII International Botanical Congress from 17<sup>th</sup> -23<sup>th</sup> July 2005 at Vienna, Austria.
- 13.6 Poster presentation entitles "Antifungal quinones from Teak (*Tectona grandis* L.f.) sawdust" in 15<sup>th</sup> Symposium ALW-Discussion Group: Secondary Metabolism in Plant and Plant Cell on 20<sup>th</sup>, May 2005 at Zeist, The Netherlands.

- 13.7 Poster presentation entitled "Screening for anti-wood rot activities of Cannabis extracts" in International Symposium on Saponines from 8<sup>th</sup> -10<sup>th</sup> September 2004 at Pulawy, Poland.

14 **Awards/Scholarships:**

- 14.1 **ASEA UNINET Staff Exchange Scholarship Awards 2015**, between Thai and Austria organized by Office of the Civil Service Commission (OCSC) Thailand, 1<sup>st</sup> April – 5<sup>th</sup> May 2016 at the Department of Pharmacognosy, Institute of Pharmacy/Pharmacognosy, Center for Chemistry and Biomedicine, Innsbruck, Austria.
- 14.2 **Researcher of Kasetsart University Sriracha Campus Awards**, 26<sup>th</sup> August 2008, Building 13<sup>th</sup>, Kasetsart University Sriracha Campus, Sriracha, Chonburi, Thailand.
- 14.3 **Jeffrey- Harborne- Award** for the best short lecture entitled "Antifungal Compounds from Teak (*Tectona grandis*)", June 28<sup>th</sup> -July 1<sup>st</sup>, 2006, Oral Presentation at PSE (Phytochemical Society of Europe) symposium, Olomouc, Czech Republic.
- 14.4 **Royal Thai Government Scholarship 2004-2007**, for Thai government lecturers to study PhD in Europe arranged by Office of the Civil Service Commission (OCSC), Thailand, started from July 2004-July 2007 at Institute of Biology, Leiden University, Leiden, the Netherland.

15 **Other:**

- 15.1 **Board of the Netherlands Alumni Association in Thailand** (under the Royal Patronage of H.R.H. Princess Sirindhorn) from 2009-2012.
- 15.2 **Board of Primary Education Service Area Office 3 Chonburi** from 21 June 2013 till 20 June 2015.