

## Curriculum Vitae

**Name:** Yupadee Paopun, M.Sc. (Botany)  
**Position:** Researcher, Expert level  
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### EDUCATION

2000 M.Sc. (Botany), Kasetsart University, Thailand  
1996 B.Sc. (Plant Science), Faculty of Agriculture at Bangphra, Rajamangala Institute of Technology, Thailand

### EXECUTIVE POSITION

29 Jan 2019-28 Jan 2021 Head of Scientific Equipment and Research Division, Kasetsart University Research and Development Institute  
1 Oct 2018-28 Jan 2019 Acting Head of Scientific Equipment and Research Division, Kasetsart University Research and Development Institute  
1 Oct 2015-30 Sep 2018, Manager of Microscopy Laboratory, Scientific Equipment and Research Division, Kasetsart University Research and Development Institute  
1 Dec 2010-30 Jun 2014 Research Division, Kasetsart University Research and Development Institute

### TRAINING

2015 Training in Intensive Course on Scanning Electron Microscopy, Transmission Electron Microscopy, and X-ray Microanalysis from July 1, 2014 to June 30, 2015, University of Arizona, U.S.A.  
2013 Training in Operation of SU8020 Scanning Electron Microscope from April 22-26, 2013, Global Application Center, Hitachi High-Technologies Corporation, Japan  
2013 Training in Operation of HT7700 Transmission Electron Microscope from January 15-18, 2013, Global Application Center, Hitachi High-Technologies Corporation, Japan  
2009 Training in Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy

- (TEM) Techniques for Nano- and Micro- Structural Analysis from June 30 to July 3, 2009, Faculty of Science, Kasetsart University and Commission of Higher Education, Thailand
- 2007 Training in Characterization Techniques for Nano- and Micro- Structural Analysis from December 20-21, 2007, Faculty of Science, Kasetsart University and Commission of Higher Education, Thailand
- 2004 Train course on FE-SEM and SEM chemical preparation for microalgae on February 5-19 2004. Organized by the National Institute for Environmental Studies, Tsukuba, Japan
- 2002 Training of TEM and SEM on Soil Analysis. Received on January 21-31 2002 from Institut de recherché pour le development, Institut National de la Recherche Agronomique, University of Marseille, France, and Scientific Equipment Center; Kasetsart University Research and Development Institute, Thailand.

## PROFESSIONAL EXPERIENCE

2000 - present Scientific Equipment and Research Division, Kasetsart University, Thailand

## AREA OF EXPERTISE

- Morphology and Anatomy of Plants and Pollen
- Biosilica from Agricultural Waste
- Scanning Electron Microscopy Techniques and Energy Dispersive X-ray Analysis

## RESEARCH GRANT

*As Head of Project:*

- 2022-2023 Structure and Bioactive Compounds of *Ulva rigida*, Fundamental Fund, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2020-2021 Biosilica from Sugarcane Leaved to Create Value Added of Agricultural Waste for Industrial Use, National Research Council of Thailand Grant
- 2019 Morphological Changes of Sea Grape on Postharvest (Preliminary), Kasetsart University Research and Development Institute, Kasetsart University Grant

- 2015 Reducing Osmium Tetroxide Usage in Preparing Plant Samples for Scanning Electron Microscope Analysis, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2011-2012 Anatomy and Ultrastructural Changes in Cell Wall of Mangosteen Fruit with The Incidence of Translucent/Gamboge Disorders, Center for Agricultural Biotechnology, Kasetsart University
- 2011 Comparative Study on Pollen and Anatomy of *Amomum* Some species for Thai Herbs Commercial interests, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2010-2011 The Study on Pollens Morphology of Vetiver Grass to Support the Preparation of Vetiver Grass Species Database, Office of the Royal Development Projects Boards Grant

*As Co-Researcher*

- 2022-2023 Hemp Genetic Diversity for Health Benefit Substances and Fiber Quality Development
- 2022-2023 The Uses of Phytochemical Extraction on the Economic *Caulerpa* Seaweed for the Potential Use and Development in Food and Cosmetics Production.
- 2022-2023 The Uses of Phytochemical Extraction on the Economic *Caulerpa* Seaweed for the Potential Use and Development in Food and Cosmetics Production.
- 2022-2023 Nutrition and Bioactivity Evaluation of Lea Lettuce (*Ulva rigida*) for Value Added Food Products Development and the Commercial Uses
- 2022-2023 Hemp Genetic Diversity for Health Benefit Substances and Fiber Quality Development
- 2022-2023 Effects of *Ulva rigida* Component Extracts on Film Properties to Develop Novel Bio-Based Packaging
- 2022-2023 Sea Lettuce (*Ulva rigida*): From Knowledge to Excellent and Integrated Biorefinery Process for Innovation of Future Food and Packaging

- 2021-2022 Hemp Genetic Diversity for Health Benefit Substances and Fiber Quality Development
- 2021 Innovative Development of Plant Based Protein by Using Extrusion Technology and the Processing of Plant Based Protein Products to Increase the Product Diversity and to Respond to the Healthy Food Market Demands
- 2021 Development of Laboratories Management System to Laboratory Safety based on TIS 2677-2558 for Support Agriculture and Food Standard
- 2021 Hemp Genetic Diversity for Health Benefit Substances and Fiber Quality Development
- 2020 Hemp Genetic Diversity for Health Benefit Substances and Fiber Quality Development
- 2019 Biodiversity of Mushrooms in Thailand by Microscopy Technique, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2019 A Potentiality of Silver Nanoparticles Obtained from Biosynthesis for Control Fungal Causing Postharvest Decay of Fruit, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2018 Propagation and Conservation on in Vitro Culture of *Smithatriis supraneanae* W.J. Kress & K. Larsen, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2016 Product Development of Thai Herb Seasoned Tree Nuts and Utilization of Nonthermal Plasma Technology for Seasoning Powder Coating, Agricultural Research Development Agency (Public Organization) Grant
- 2016 Using of Activated Charcoal Retrieved from Agricultural Wastes in Tissue Culture Media for Substitution of Imported Activated Charcoal for Value Added and Reduction of Tissue Culture Investment, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2016 Technique of Ultra Thin Film Preparation for Transmission Electron Microscope, Kasetsart University Research and Development Institute, Kasetsart University Grant

- 2011-2015 Research and Development Program on Botanical Study for Plant Variety Protection
- 2012 Creating Glowing *Limnophila* with Green Fluorescent Protein
- 2012 Utilization of Biomass Waste Materials After the Ark of Tung Oil tree, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2011 Microspores Developmental Stages of Sterile Rice Pollen Controlling by Cytoplasmic-genetic Male Sterility and Thermo-sensitive Genetic Male Sterility, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2011 Techniques of Chemical Preparation for Scanning Electron Microscope of Plant, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2009-2012 The Preparation of Vetiver Database in Thailand, Office of the Royal Development Projects Boards Grant
- 2011-2512 Activity of ROS-detoxifying Enzymes, Anatomical and Morphological Characterization of Plant Root-Treated by Cyanobacteria Extract, Research and Development Institute, Kasetsart University Grant
- 2010-2012 Studies on the Botanical Characteristics for the Purpose of Protection of Plant Varieties Under the Plant Variety Protection Act.,The National Research Council of Thailand Grant
- 2008-2011 Factors effecting on Yield and Fiber Quality of Hemp, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2011 Information System for Lower Plants Classification and Monitoring for Environmental Assessment, Research and Development Institute, Kasetsart University Grant
- 2003-2007 Biology of Cannabis: New Economic Crop, Kasetsart University Research and Development Institute, Kasetsart University Grant
- 2006-2008 Pollen and Chromosome Study of the Genus *Nelumbo* and *Nymphaea* in Thailand, Kasetsart University Research and Development Institute,

Kasetsart University Grant

2002 Morphology and Anatomy of Cannabis: New Economic Crop, Ministry of Natural Resources and Environment of Thailand Grant

## PUBLICATIONS

1. Pan-utai W., P. Satmalee, S. Saah, **Y. Paopun** and M. Tamtin. 2023. Brine-Processed *Caulerpa lentillifera* Macroalgal Stability: Physicochemical, Nutritional and Microbiological Properties. *Life*, 13, 2112. <https://doi.org/10.3390/life13112112>
2. **Paopun Y.**, P. Thanomchat, C. Roopkham, P. Umroong, W. Pan-utai, P. Satmalee, P. Kosawatpat, B. Thongdang, M. Tamtin. 2023. Structural Development of Marine Green Alga (*Ulva rigida* C. Agardh, 1823) during Cultivation. in *Trends in Sciences*, 20 (8): 6747
3. Satmalee P., T. Panantoa, S. Saah, **Y. Paopun**, M. Tamtin, P. Kosawatpat, B. Thongdang. 2023. Effects of pretreatment and drying methods on physical properties and bioactivity of sea lettuce (*Ulva rigida*) in *Food Sci. Technol* 43
4. Chaowana P., W. Hnoocham, S. Chaiprapat, P. Yimlamai, K. Chitbanyong, K. Wanitpinyo, T. Chaisan, **Y. Paopun**, S. Pisutpiched, S. Khantayanuwong, B. Puangsin. 2023. Utilization of Hemp Stalk as a Potential Resource for Bioenergy. in *Material Science for Energy Technologies*, 7: 19-28
5. Limsangouan N., N. Rodkwan, W. Pengpinit, T. Tumpanuvat, P. Pengpinit, **Y. Paopun**. 2023. Physical Property Changes Promoting Shelf-Life Extension of Soy Protein-Based High Moisture Meat Analog under High Pressure Treatment. in *J Food Sci Technol*,
6. Sonchaeng U., P. Wongphan, W. Pan-utai, **Y. Paopun**, W. Kansandee, P. Aatmaree, M” Tamtin, P. Kosawatpat, N. Harnkarnsujarit, 2023. Preparation and Characterization of Novel Green Seaweed Films from *Ulva rigida*. in *Polymers*, 15: 3342.
7. Sillapacharoenkul B., R. Khunanake, **Y. Paopun**, P. Thanomchat and Sinbuathong N. 2023. Biogas production from sugarcane leaves and tops using batch experiments in *Int. J. Global Warming*, 29 (1-2)
8. **Paopun Y.**, P. Thanomchat, D. Toyen. 2022. Analysis Biosilica in Sugarcane Leaves. in *Microsc. Microanal. Res.*, 35(2): 5-9.

9. Thanomchat P. and **Y. Paopun**. 2022. Wood Anatomy of *Millettia leucantha* Kurz. in Microsc. Microanal. Res., 35(2): 1-4.
10. **Paopun Y.**, P. Thanomchat, P. Umrung. and Supapan Seraphin 2022. Calcium Oxalate Crystals in Thai *Peperomia pellucida* (L.) Kunth Stems and Leaves. in Microsc. Microanal Res. 35(1). pp. 26-32.
11. Umrung P., **Y. Paopun**, Y. Aramsirujiwet. 2021. Ultrastructural Studies of Ganoderma cf. *Lucidum* cell by Microscopic Technique, in Microsc. Microanal Res. 34(1). pp. 13-15.
12. Sonsupab B., P. Thanomchat, **Y. Paopun**. 2021. Comparative A Studies on Leaf Surface of *Pandanus tectorius* Blume Among Two Accessions, in Microsc. Microanal Res. 34(1). pp. 20-22.
13. Sompasong W., B. Sonsupab, **Y. Paopun**. 2021. Seed Morphology of the Subtribe Barleriinae and Andrographinae (Acanthaceae) in Thailand, in Microsc. Microanal Res. 34(1). pp. 9-12.
14. **Paopun Y.**, D.Changchan and P. Thanomchat. 2020 Calcium Oxalate Crystals and Leaf Anatomical Characteristics of *Kaempferia galanga* L. in Microsc. Microanal Res. 33(1). pp. 28-33.
15. Dechkrong P., T. Sreewongchai, **Y. Paopun**, P. Sripichitt, and F. Woreded. 2019. Cytological observation of anther development of cytoplasmic male sterility and thermosensitive genic male sterility systems in rice in Agricultural and Natural Resources Vol.53, No 2
16. **Paopun Y.**, P. Thanomchat, D. changjan and R. Charoensub. 2019. Techniques for Preparing Fragile Pollen of *Curcuma supraneeana* W.J. Kress & K. Larsen Skornick. For Morphological Observation in Microsc. Microanal Res. 32(1). pp. 41-44.
17. **Paopun Y.** and P. Thanomchat. 2018. Pollen characteristics of some species in the Genus *Bacopa* in Proceeding of the 35th MST International conference, 30th January-2nd February: 171-172.
18. Thanomchat P. and **Y. Paopun**. 2018. Preparation of Suitable Ultrathin Formvar Film for Transmission Electron Microscopic Technique in Proceeding of the 35th MST International conference, 30th January-2nd February: 116-117.

19. **Paopun Y.**, P. Thanomchat and S. Seraphin. 2016. Prismatic and Needle-like Crystals of Calcium Oxalate in Thai Herbs. in Siriraj Medical Journal. Vol. 68 No. 3 (Supplement 1). pp. s34-35.
20. **Paopun Y.**, P. Umrung P. Thanomchat. 2012. Cell Wall Structure of Translucent Cells of Mangosteen Fruit. in Proceeding 7<sup>th</sup> International Symposium on Mineral Nutrition of Fruit Crops, Acta Horticulture Number 984. pp. 421-425
21. **Paopun Y.**, P. Umrung, P. Thanomchat and C. Kongpakdee. 2011. Epidermal Surface and leaf Anatomy of *Thunbergia laurifolia* Lindl. in Journal of the Microscopy Society of Thailand 4 (2). pp. 61-64.
22. Thanomchat P., **Y. Paopun** and C. Kongpakdee. 2011. Structural Investigation of Trichomes and Stomata of *Plectranthus amboinicus* (Lour.) Spreng. Journal of Microscopy Society of Thailand. Vol. 4 (2) pp.65-69.
23. Suwanpakdee C., S. Masuthon, P. Chantaranonthai and **Y. Paopun**. 2008. Palynological Study of *Piper* L. (Piperaceae) in Thailand. in KKU Science Journal Volume 36 (Supplement). pp. 51-57.
24. **Paopun Y.**, B. Chiwapreecha, P. Poochinya, P. Umrung and C. Kongpakdee. 2008. Pollen of *Macania grandiflora* Imlay, Thai Endemic Plant. in Korean Journal of Microscopy Vol.38, No.4 Supplement. pp. 176-177.
25. **Paopun Y.**, S. Masuthon and P. Poochinya. 2007. Scanning Electron Microscope Techniques for Pollen Ornamentation of *Bauhinia*. in J. E. M. S. T. Vol. 21, pp. 165-168.
26. Poochinya P., O. Naivikul, **Y. Paopun** and P. Umrung. 2007. Microscopy Techniques in Germinated Rice Structure Analysis. in J. E. M. S. T. Vol. 21, pp. 36-40.
27. **Paopun Y.**, P. Poochinya, P. Umrung and C. Kongpakdee. 2006. Electron Microscopic Techniques for Pollen Ornamentation of *Oryza sativa* L. in J. E. M. S. T. Vol. 20 No.1, pp. 233-234.
28. **Manoch L.**, O. Jeamjitt, K. Busarakam, T. Dethoup, P. Poochinya, **Y. Paopun** and U. Suwanawong. 2002. Surface Ornamentation of Ascospores in Trichocomaceae, Bionectriaceae and Sordariaceae. In J. E. M. S. T. Vol. 16 No.1, pp. 244-245.



## CONFERENCE PRESENTATIONS

1. Y. Paopun, P. thanomchat, N. Kornburi. 2024. Calcium Oxalate Crystals in Leaf and Petiole of *Colocasia gigantea* (Blume) Hook. f. in the 41<sup>st</sup> International Conference of the Microscopy Society of Thailand, 4-8 June 2024, Chiang Mai, Thailand. 95-96
2. P. thanomchat, Y. Paopun, N. Kornburi. 2024. Anatomical Character of Velvet apple (*Diospyros discolor* Wild.) Wood. in the 41<sup>st</sup> International Conference of the Microscopy Society of Thailand, 4-8 June 2024, Chiang Mai, Thailand. 91-92
3. V. Yordsri, P. Dulyaseree, P. Thanomchat, Y. Paopun, C. Thanachayanont. Preparation and Characterization of Modified Local Rambutan Charcoal for Using in Adsorption Applications, in the 41<sup>st</sup> International Conference of the Microscopy Society of Thailand, 4-8 June 2024, Chiang Mai, Thailand. 132-133
4. J. Rattanaanan, P. Thanomchat, Y. Paopun and Y. Detpakdee Leaf Surface Structure and Trichome of *Litsea petiolata* Hook. F in the 41<sup>st</sup> International Conference of the Microscopy Society of Thailand, 4-8 June 2024, Chiang Mai, Thailand. 93-94
5. A. Boonbrakob, W. Kongkun, L. Sangsawang, Y. Paopun. Scanning Electron and Light Microscopy with Study Morphology of Epiphytic Diatom on Seagrass Blades from Koh Kradao, Trad Province, Thailand in the 41<sup>st</sup> International Conference of the Microscopy Society of Thailand, 4-8 June 2024, Chiang Mai, Thailand. 108-109
6. **Y. Paopun**, P. Thanomchat, N. Kronburee, N. Kaewtrakulchai. 2023. Extraction of Bio-Silica from Sugarcane Leaf Sheath. In International Conference on Biodiversity. 2023. December 12-13, Suan Luang Rama IX Royal Botanic Garden, Bangkok, Thailand
7. **Y. Paopun**, P. thanomchat, D. Toyen. 2023. Determination of Bio Silica in Leaf Sheath of Sugarcane. in Proceedings of the 2<sup>nd</sup> International Conference on Cane and Sugar 2023. 5-7 July, at Asawin Grand Convention Hotel, Bangkok, Thailand. 203-209
8. **Y. Paopun**, P. Thanomchat, N. Kornburi. 2023. Calcium Oxalate in *Colocasia esculenta* (L.) Schott in the 40<sup>th</sup> International Conference of the Microscopy Society of Thailand, 3-5 April 2023, Pattaya, Chonburi, Thailand
9. P. Thanomchat, **Y. Paopun**, N. Kronburee. 2023. Characteristic Distribution and Density of Stomata, Silica Cell and Cork Cell in 5 Cultivations of Sugarcane (*Saccharum officinarum* L.)

10. P. Thanomchat and **Y. Paopun**. 2023. Anatomical Characters of *Lagerstroemia macrocarpa* Kurz (Inthanin bok) Wood. in the 40<sup>th</sup> MST International Conference, 3-5 April 2023, Pattaya, Chonburi, Thailand
11. **Paopun Y.**, P. Thanomchat, D. Toyen, D. Changjan, N. Sinbuatong. 2021. Silica on Leaf Surface of Supanburi 50 Cultivar Sugarcane of Thailand in the 38<sup>th</sup> International Conference of the Microscopy Society of Thailand, 23-26 March, Chonburi, Thailand
12. Thanomchat P., **Y. Paopun**. 2021. Anatomical Characters of Root, Stem and Leaf of *Eclipta prostrata* (L.) L. Asteraceae. in the 38<sup>th</sup> International Conference of the Microscopy Society of Thailand, 23-26 March, Chonburi, Thailand
13. **Paopun Y.**, P. Thanomchat and P. Kermanee. 2019. Developmental Anatomy of Flower, Fruit and Fiber of Kapok (*Ceiba pentandra* (L.) Gaertn.) (Malvaceae)” In The 13<sup>th</sup> Botanical Conference of Thailand, 14-15 June, Faculty of Science, Srinakharinwirot University, Thailand. pp. 228-229.
14. Thanomchat P., **Y. Paopun** and P. Kermanee. 2019. Anatomical Character of (*Schumannianthus dichotomus* (Roxb.) Gagnep.) (Maranthaceae) Grown in Drought Condition in the 13<sup>th</sup> Botanical Conference of Thailand, 14-15 June, Faculty of Science, Srinakharinwirot University, Thailand. pp. 230-231.
15. Thanomchat P., **Y. Paopun** and P. Kermanee. 2019. Developmental Anatomy of Flower and Seed of Sacred Lotus (*Nelumbo nucifera* Gaertn.) (Malvaceae)” In The 13<sup>th</sup> Botanical Conference of Thailand, 14-15 June, Faculty of Science, Srinakharinwirot University, Thailand. pp. 226-227.
16. **Paopun Y.**, P. Thanomchat, D. Changjan and R. Chaoensub. 2019. Preparation Techniques of *Smithatris supraneanae* W.J. Kress & K. Larsen Fragile Pollens for Morphology Analysis, pp. 167-168. in the 36<sup>th</sup> International Conference of the Microscopy Society of Thailand, 26<sup>th</sup>- 29<sup>th</sup> March
17. Thanomchat P., **Y. Paopun** and P. Kermanee. 2019. Character and Property Evaluation of Sacred Fig Tree (*Ficus religiosa* L.: Moraceae) Wood, pp. 169-170 ในการประชุมวิชาการ the 36<sup>th</sup> International Conference of the Microscopy Society of Thailand, 26<sup>th</sup>- 29<sup>th</sup> March.

18. **Y. Paopun** and P. Thanomchat. 2018. Leaf surface and Pollen Morphology of A Medicinal Herb *Limnophylla heterophylla* (Roxb.) Benth., pp. 31. ในการประชุมวิชาการ the 5<sup>th</sup> International Anatomical Sciences and Cell Biology Conference, the 24<sup>th</sup>- 26<sup>th</sup> January.
19. P. Thanomchat and **Y. Paopun**. 2018. Reducing Osmium Tetroxide Usage in Preparing *Ocimum gratissimum* L. Leaf Surfaces for Scanning Electron Microscopic Technique, pp. 28. in the 5<sup>th</sup> International Anatomical Sciences and Cell Biology Conference, the 24<sup>th</sup>- 26<sup>th</sup> January.
20. Somprasong W., **Y. Paopun** and P. Thanomchat. 2016. Pollen Types of the Subtribe Andrographinae, Tribe Ruellieae, Family Acanthaceae in Thailand. in the 11<sup>th</sup> Asia-Pacific Microscopy Conference, the 33<sup>rd</sup> Microscopy Society, and the 39<sup>th</sup> Anatomy Association of Thailand Annual Conference. 23-27 May, Phuket, Thailand. pp. 302.
21. Thanomchat P. and **Y. Paopun**. 2016. A Comparison between the Two Techniques for Preparing Lemon Grass Leaf for Scanning Electron Microscope. in the 11<sup>th</sup> Asia-Pacific Microscopy Conference the 33<sup>rd</sup> Microscopy Society, the 39<sup>th</sup> Anatomy Association of Thailand Annual Conference. 23-27 May, Phuket, Thailand. pp. 310
22. **Paopun Y.**, P. Thanomchat, and S. Seraphin. 2015. Nanocrystals of Calcium Oxalate in Sweet Basil Leaf. Proceedings of the 8<sup>th</sup> AMC and the 32<sup>nd</sup> MST Annual Conference. 28-30 January. pp. 271-276. Nakhon Pathom, Thailand
23. Thanomchat P., **Y. Paopun** and A. sadsri. 2013. Leaf Trichomes and Stomata of *Ocimum basilicum* Linn. in Proceedings of the 30<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 23-25 January. p. 69.
24. **Paopun Y.**, P. Thanomchat, and A. sadsri. 2013. Pollen Morphology of the Genus *Ocimum* in Thailand. in Proceedings of the 30<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 23-25 January. p. 68.
25. **Paopun Y.**, P. Umrung, P. Thanomchat and S. Poovarodom. 2012. Cell Wall Structure of Translucent Cells of Mangosteen Fruit. Poster Presentation Delivered in Proceedings of the 7<sup>th</sup> International Symposium on Mineral Nutrition of Fruit Crops. 19-25 May, Chanthaburi, Thailand.
26. Thanomchat P., **Y. Paopun** and A. Sardsee. 2012. Structural Investigation

of Trichomes and Stomata of *Ocimum gratissimum* L. Poster Presentation Delivered in Conference Proceedings APMC10-ICONN2012-ACMM22. 6-9 February, Perth, Western Australia.

27. **Paopun Y.** and P. Thanomchat. 2012. Morphological Identification of *Peltroforum* Pollen Using SEM Technique. Poster Presentation Delivered in Conference Proceedings APMC10-ICONN2012-ACMM22. 6-9 February, Perth, Western Australia.

28. Thanomchat P. and **Y. Paopun**. 2012. Investigations Stomata and Trichomes on Surface Leaves of *Asystasia gangetica* (L.) T. Anderson. Poster Presentation Delivered In Proceedings of the 29<sup>th</sup> Annual Conference Microscopy Society of Thailand. 30 January-1 February, Cha-am, Phetchaburi, Thailand.

29. **Paopun Y.**, P. Thanomchat and P. Umrung. 2012. Anatomical Studies of *Amomum villosum* Lour. Poster Presentation Delivered in Proceedings of the 29<sup>th</sup> Annual Conference Microscopy Society of Thailand. 30 January-1 February, Cha-am, Phetchaburi, Thailand.

30. Anukul N. and **Y. Paopun**. 2012. Is Starch Granules Changed in Transgenic Rice?. in Conference Proceedings APMC 10 / ICONN 2012 / ACMM 22, 6-9 February 2012, Perth, Western Australia.

31. **Paopun Y.**, P. Umrung, P. Thanomchat and C. Kongpakdee. 2011. Epidermal Surface and leaf Anatomy of *Thunbergia laurifolia* Lindl. In Proceedings of the 28<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 5-7 January. pp. 95-96.

32. **Paopun Y.**, P. Umrung and P. Thanomchat. 2011. Morphological Identification of *Thunbergia* Pollen Using SEM Technique. in Proceedings of the 28<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 5-7 January. pp. 97-98.

33. Thanomchat P., **Y. Paopun** and C. Kongpakdee. 2011. Structural Investigation of Trichomes and Stomata of *Plectranthus ambonicus* (Lour.) Spreng. in Proceedings of the 28<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 5-7 January. pp. 93-94.

34. Narkkong N., P. Umrung and **Y. Paopun**. 2010. Ultrastructure of the Ligulid Spermatozoa: Comparison within Three Species in the Gulf of Thailand. in Proceedings of the 27<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 20-22 January. pp. 38-39.

35. Poochinya P., **Y. Paopun**, P. Umrung and C. Kongpakdee. 2010. Structure of Rice Starch

- Granules in Nanometer Scale as Revealed by Atomic force Microscopy. in Proceedings of the 27<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 20-22 January. pp. 67-68.
36. **Paopun Y.**, P. Poochinya and P. Umrung. 2010. Pollen Morphology of *Turnera* in Thailand. in Proceedings of the 27<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 20-22 January. pp. 65-66.
37. Manoch L., O. Piasai, T. Dethoup, J. Kokaew, A. Eamvijarn, S. Piriyaopin, **Y. Paopun**, P. Poochinya and P. Umrung. 2009. Morphological studies of Slime Mold, Some Noteworthy Sordariaceous and Synnemata Fungi. in Proceedings of the 26<sup>th</sup> Annual Conference of The Microscopy Society of Thailand. 28-30 January. pp. 125-126.
38. Poochinya P., O. Naivikul, **Y. Paopun**, P. Umrung and C. Kongpakdee. 2009. Scanning Electron Microscopic Observation on Thai Glutinous Rice and Microwave Cooking. in Proceedings of the 26<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 28-30 January. pp. 87-88.
39. **Paopun Y.**, P. Poochinya and P. Umrung. 2009. Application of Scanning Electron Microscope to Study *Ruelliatuberrosa* L. Pollen Morphology. in Proceedings of the 26<sup>th</sup> Annual Conference of The Microscopy Society of Thailand. 28-30 January. pp. 57-58.
40. **Paopun Y.**, P. Umrung, C. Kongpakdee and P. Poochinya. 2008. Morphological Identification of *Gomphrena* Pollen Using SEM Technique. in International Proceeding of the 9<sup>th</sup> International Congress on Cell Biology. 7-10 October. pp. 31-35.
41. Dethoup T., L. Manoch, S. Pikulklin, A. Kijjoa and **Y. Paopun**. 2008. Marine Fungi from Bangsan Beach, Chonburi Province. in Proceeding the 25<sup>th</sup> Annual Conference Microscopy Society of Thailand. 9-11 January. pp. 95-96.
42. Poochinya P., O. Naivikul, **Y. Paopun** and P. Umrung. 2008. Change in Morphological of Rice Starch During Grain Development. in Proceeding the 25<sup>th</sup> Annual Conference Microscopy Society of Thailand. 9-11 January. pp. 63-64.
43. **Paopun, Y.**, P. Poochinya, P. Umrung and C. Kongpakdee. 2008. Pollen Morphology of Genus *Gromphrena* in Thailand. in Proceeding the 25<sup>th</sup> Annual Conference Microscopy Society of Thailand. 9-11 January. Pp. 65-66.

44. Manoch L., A. Eamvijarn, O. Jeamjitt, T. Dethoup, J. Kokaew, **Y. Paopun**, P. Poochinya and P. Umrung. 2008. SEM Study on Some Noteworthy Leaf Litter Fungi. in Proceeding 25th Annual Conference Microscopy Society of Thailand. 9-11 January. pp. 22-23.
45. Manoch, L., O. Jeamjitt, K. Busarakam, T. Dethoup, J. Kokaew, **Y. Paopun** and P. Poochinya. 2005. SEM Study of Ascospore Ornamentation in Soil Fungi. in J. E. M. S. T. Vol. 19 No.1, pp. 211-212.
46. Namwongprom, K., W. Nanakorn, **Y. Paopun** and M. Norsaesri. 2000. An Overview of the genus *Vetiveria* Bory in Thailand. in Vetiver and Environment. The Second International Conference on Vetiver. 18-22 January 2000, Phetchaburi, Thailand

#### AWARD

1. 2024 People's Choice Award of Art Photo Contest in the 41<sup>st</sup> International Conference of the Microscopy Society of Thailand, 4-8 June 2024, Chiang Mai, Thailand
2. 2021 Online Photo Contest SEM Popular Vote in the 38<sup>th</sup> International Conference of the Microscopy Society of Thailand, 26 March 2021, Burapha University, Chonburi, Thailand
3. 2021 Outstanding Personnel Award of the Kasetsart University Research and Development Institute.
4. 2019 Third Prize of Poster Presentation "Developmental Anatomy of Flower, Fruit and Fiber of Kapok (*Ceiba pentandra* (L.) Gaertn.) (Malvaceae)" in the 13<sup>th</sup> Botanical Conference of Thailand, 14-15 June 2019, Faculty of Science, Srinakharinwirot University, Thailand
5. 2018 Best Photo Award: Micrograph name "pumpkin" in the 35<sup>th</sup> International conference of the Microscopy
6. 2016 AAT 39 Award: "Prismatic and Needle-Like Crystals of Calcium Oxalate in Thai Herbs" in the 11<sup>th</sup> Asia-Pacific Microscopy Conference, the 33<sup>rd</sup> Annual Conference of the Microscopy Society of Thailand, the 39<sup>th</sup> Annual Conference of the Anatomy Association of Thailand, Phuket, Thailand
7. 2015 Third Prize of Art Photo Contest: Micrograph Name "Gift Box" in the 8<sup>th</sup> ASEAN Microscopy Conference & the 32<sup>nd</sup> Annual Conference and Meeting of the Microscopy Society of Thailand. 28-30 January 2015, Kasetsart University

Conference Hall at Kampong Saen Campus, Nakon Pathom, Thailand

8. 2013 Second Prize of SEM Micrograph-Biological Science: Micrograph Name “*Ocimum* Pollen” in the 30<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 23-25 January 2013, Maneechan Resort, Chanthaburi, Thailand
9. 2012 Third Prize of Optical Micrograph-Bioscience: Micrograph Name “leaf surface” in the 29<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 30 January- 1 February 2012, Holiday Inn Regent Beach Resort, Cha-Am, Petchaburi, Thailand
10. 2011 Third Prize of Poster Presentation - Bioscience “Morphological Identification of *Thunbergia* Pollen Using SEM Technique”. in the 28<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 5-7 January 2011, Mae Fah Luang University, Chiang Rai, Thailand
11. 2011 Second Prize of Scanning Electron Micrograph-Bioscience: Micrograph Name “*Asystasia gangetica* pollen” in the 28<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 5-7 January 2011, Mae Fah Luang University, Chiang Rai, Thailand
12. 2011 Third Prize of Optical Micrograph-Bioscience: Micrograph name “glandular Trichome”. in the 28<sup>th</sup> Annual Conference of the Microscopy Society of Thailand. 5-7 January 2011, Mae Fah Luang University, Chiang Rai, Thailand
13. 2010 First Prize of SEM Biological Science: Micrograph Name “Yests” in the 27<sup>th</sup> Annual Conference Microscopy Society of Thailand. 20-22 January 2010, Surat Thani, Thailand
14. 2009 First Prize of SEM-Bioscience: Micrograph name “Fungi Spore” in the 26<sup>th</sup> Annual Conference Microscopy Society of Thailand. 28-30 January 2009, Thailand
15. 2009 Second Prize of SEM-Bioscience: Micrograph name “*Neosartorya* species” in the 26<sup>th</sup> Annual Conference Microscopy Society of Thailand. 28-30 January 2009, Thailand
16. 2008 Third Prize of Poster Presentation-Bioscience. “Marine Fungi from Bangsan Beach, Chonburi Province” in the 25<sup>th</sup> Annual Conference Microscopy Society of Thailand. 9-11 January 2008, Pitsanulok, Thailand
17. 2008 Honorable Prize of Poster Presentation-Bioscience. “Morphological Changes of Rice Starch During Grain Development” in the 25<sup>th</sup> Annual Conference Microscopy

Society of Thailand. 9-11January2008, Pitsanulok, Thailand

18. 2008 Honorable Prize of SEM – Bioscience: Micrograph name “*Gromphrema pollen*” in the 25<sup>th</sup> Annual Conference Microscopy Society of Thailand. 9-11January2008, Pitsanulok, Thailand
19. 2008 Honorable Prize of SEM – Bioscience: Micrograph name “*Helicomycetes sp.*” in the 25<sup>th</sup> Annual Conference Microscopy Society of Thailand. 9-11January2008, Pitsanulok, Thailand
20. 2008 Third Prize of SEM – Bioscience: Micrograph name “*Dactylosporahaliotrepha*” in the 25<sup>th</sup> Annual Conference Microscopy Society of Thailand. 9-11January2008, Pitsanulok, Thailand
21. 2008 Third Prize of SEM Bioscience: “Rice Starch” in the 25<sup>th</sup> Annual Conference Microscopy Society of Thailand. 9-11January2008, Pitsanulok, Thailand
22. 2007 Second Prize of SEM – Bioscience: Micrograph name “*Talaromycesluteus*” in the 24<sup>th</sup> Annual Conference Microscopy Society of Thailand.14-16February2007
23. 2007 Third Prize of SEM Bioscience: “Pollen” in the 24 Annual Conference Microscopy Society of Thailand.14-16 February2007
24. 2013 รางวัลนักวิจัยผู้สร้างสรรค์ผลงานวิจัยตีพิมพ์ระดับนานาชาติปี 2556 มหาวิทยาลัยเกษตรศาสตร์
25. 2007 โล่ประกาศเกียรติคุณผู้นำชื่อเสียงมาสู่มหาวิทยาลัยเกษตรศาสตร์ ปี 2550
26. 2006 บุคลากรดีเด่นสายสนับสนุนและช่วยวิชาการประจำปี 2549 ของมหาวิทยาลัยเกษตรศาสตร์