

YOTIN JUPRASONG

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Current Affiliation: Department of Biochemistry
Faculty of Medicine, Srinakharinwirot University
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Khlong Toei Nuea, Wattana, Bangkok 10110 TH



EDUCATION

2016 – 2023	Ph.D., Mahidol University, Faculty of Science, Graduate Program in Toxicology, Thailand
2012 – 2016	B.SC., Mahidol University, Faculty of Science, Department of Plant Science, Distinction/Honor Program (Graduated with First-Class Honors), Thailand
2009 – 2012	High School, Udonpittayanukoon School Udon Thani, Thailand
2006 – 2009	Secondary School, Udonpittayanukoon School Udon Thani, Thailand

APPOINTMENTS

2023 – Present	Faculty Member (Lecturer), Srinakharinwirot University, Faculty of Medicine, Department of Biochemistry
2023 – Present	Research Unit Member, Mahidol University, Faculty of Science, Systems Biology of Diseases (SyBiD) Research Unit
2023 – Present	Scientific Consultant in Safety and Risk Management, Mahidol University, Faculty of Science, Toxicology: Central Laboratory
2019 – 2023	Student President, Mahidol University, Faculty of Science, Graduate Program in Toxicology
2016	Secretary, and Coordinator of Health Care Unit, Mahidol University, Faculty of Science, Science Student Council (SciSMO), the 25 th Atom Games: Kan Phai Mahidol Games
2015	Secretary, Mahidol University, Faculty of Science, Science Student Council (SciSMO)
2014	Executive Editor (Associated Editor), Mahidol University, Faculty of Science, the 29 th GiawGoy: The Memorial Book of MUSC
2013 – 2015	Student President, Mahidol University, Faculty of Science, Department of Plant Science
2013 – 2016	President, and Coordinator, Mahidol University, Faculty of Science, Science Student Council (SciSMO), Health Care Unit

LOCAL, REGIONAL, AND INTERNATIONAL MEMBERSHIPS

- Asia Pacific Association of Allergy, Asthma, and Clinical Immunology, APAAACI (Member ID: 233206)
- Allergy, Asthma, and Immunology Association of Thailand, AAIAT (Member ID: 1006)
- European Academy of Allergy and Clinical Immunology, EAACI (Member ID: EAACI20358)
- American Academy of Allergy, Asthma, and Immunology, AAAAI (Member ID: 140601)
- Thai Society of Toxicology, TST (Member ID: Y.023)

SCHOLARSHIPS AND GRANTS

2021	Partial Funding for Graduate Student Thesis, Graduate Studies for Mahidol University Alumni Association, Thailand
2017	Travel Grant, the KAI International Meeting 2017, the Korean Association of Immunologists, South Korea
2016 – 2020	Ph.D. Science Achievement Scholarship of Thailand (SAST), Royal Thai Government Scholarship, Thailand
2015	Government Pharmaceutical Organization Scholarship, Ministry of Public Health of Thailand, Thailand
2014 – 2015	Faculty of Science Mahidol University Scholarship, Thailand

RESEARCH COLLABORATIONS

- Ministry of Public Health, Department of Medical Sciences, Nonthaburi, Thailand
- Phramongkutklao Medical Center, Army Institute of Pathology, Bangkok, Thailand
- Burapha University, Faculty of Engineering, Department of Materials Engineering, Chon Buri, Thailand
- Queen Sirikit National Institute of Child Health, Pediatrics Division, Bangkok, Thailand
- Zenostic Co., Ltd., Bangkok, Thailand
- Center of Excellence on Environmental Health and Toxicology, Bangkok, Thailand
- Mahidol University, Faculty of Medicine Siriraj Hospital, Siriraj Center of Research for Excellence (SiCORE) in Allergy & Immunology, Bangkok, Thailand
- Mahidol University, Faculty of Medicine Siriraj Hospital, ENT Allergy Clinic, Bangkok, Thailand
- Mahidol University, Faculty of Science, Advanced Diagnosis Development Center (ADDC), Bangkok, Thailand
- Mahidol University, Faculty of Science, MUSC Allergy Lab, Bangkok, Thailand
- Mahidol University, Faculty of Science, Systems Biology of Diseases (SyBiD) Research Unit, Bangkok, Thailand
- Mahidol University, Faculty of Science, Center of Nanoscience and Nanotechnology, Bangkok, Thailand

RESEARCH COLLABORATIONS (CONT.)

- Mahidol University, Faculty of Science, Department of Plant Science, Plant Morphology, Anatomy, Taxonomy and Ecology Laboratory, Bangkok, Thailand
- Mahidol University, Faculty of Environment and Resource Study, Nakhonpatom, Thailand
- Kasetsart University Laboratory School Center for Education, Bangkok, Thailand
- Ministry of Natural Resources and Environment, Botanical Garden Organization, Queen Sirikit Botanic Garden (QSBG), Chiang Mai, Thailand

EXPERTISE / RESEARCH TECHNIQUE EXPERIENCE

- Optimization and Validation Techniques: Protein Microarray Biochip, Medical Diagnostic Device
- Protein Biochemistry Techniques: SDS-PAGE, Protein Purification
- Immunological Techniques: Immunoblotting, ELISA
- Microtechniques: Plant Anatomy, Permanent Slide Preparation, Airborne Pollen Collection
- Molecular Biology Techniques: Extraction and Purification (RNA and Protein), Gel Electrophoresis, RT-PCR, qRT-PCR
- Data Analytical Techniques: Statistical Analysis in Biological and Medical Sciences
- Science Education: Research-Based Learning, Biology, Botany, Toxicology, Medical Sciences, and Biostatistics
- Others: Petty Patent Registration and Business Canvas Model

TEACHING EXPERIENCE

- For Graduate Student: Biostatistics, Fundamental Immunology, Advanced Molecular Biology, Basic Human Physiology
- For Undergraduate Student: Introduction to Statistics, Molecular Biology Lab, Plant Morphology and Anatomy, Plant Microtechniques
- For Highschool Student: General Biology, General Botany, Basic Molecular Biology, Scientific Methodology

GENERAL SKILLS

- Office and Database: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Access
- Illustration and Presentation: Adobe Photoshop, Adobe Illustrator, Canva, Prezi, BioRender
- Data Analysis and Visualization: Image J, IBM SPSS, GraphPad Prism, Minitab, OriginPro, Orange Data Mining, R-Studio

ADDITIONAL EXPERIENCE

- Research Assistant at Systems Biology of Diseases Research Unit, Faculty of Science, Mahidol University, Bangkok, Thailand
- Biostatistics and Research Consultant at Faculty of Science, Mahidol University, Bangkok, Thailand
- Scientific Research Consultant at Allergy Lab Express, Bangkok, Thailand
- Guest Lecturer/Tutor at Mahidol University, Bangkok, Thailand

RESEARCH WORKS

1. On-Going Research

- 1) Science Education: General Biology, Molecular Biology, Medical Science, and Biostatistics
- 2) Environmental and Occupational Allergy: Urbanization and Meteorological Association
- 3) Biosensor for Aeroallergen Detection
- 4) Optimization and Development of Microarray Biochip for Tropical Allergen Specific IgE Detection
- 5) Effects of Environmental Stress on Expression and Immunoreactivity of Grass Group I Pollen Allergens
- 6) Indoor and Outdoor Airborne Pollen Survey in Metropolitan Zone

2. Doctoral Research

Doctoral Thesis: A Development of Airborne Pollen-Specific IgE Detection Array and Factors Affecting Airborne Pollen and Major Allergen Expression

- Advisory Committee:
1. Asst. Prof. Wisuwat Songnuan, Ph.D.
(Department of Plant Science and Systems Biology of Diseases Research Unit, Faculty of Science, Mahidol University)
 2. Assoc. Prof. Toemsak Sriksirin, Ph.D.
(Department of Physics and Center of Nanoscience and Nanotechnology, Faculty of Science, Mahidol University)

3. Undergrad Research

- 1) Senior Project Thesis: The Effect of Oil Spill on Leaf Anatomical Structures of *Terminalia catappa* L.
Advisory Committee:
 1. Asst. Prof. Paweena Traiperm, Ph.D.
(Department of Plant Science, Faculty of Science, Mahidol University)
 2. Paramita Punwong, Ph.D.
(Faculty of Environment and Resources Study, Mahidol University)

RESEARCH WORKS (CONT.)

3. Undergrad Research (CONT.)

- 2) Undergraduate Thesis: Leaf Anatomical Study and Phenetic Analysis of *Ipomoea* L. (Convolvulaceae)
Advisory Committee:
 1. Asst. Prof. Paweena Traiperm, Ph.D.
(Department of Plant Science, Faculty of Science, Mahidol University)
 2. Asst. Prof. Sasivimon Chomchalow Swangpol, Ph.D.
(Department of Plant Science, Faculty of Science, Mahidol University)
 3. Asst. Prof. Thaya Jenjittikul, Ph.D.
(Department of Plant Science, Faculty of Science, Mahidol University)

PATENTS / PETTY PATENTS

- Juprasong, Y.**, & Songnuan, W. Thai Petty Patent. Tropical/Subtropical Pollen Protein Extraction Procedures. (Petty Patent Pending; Request No.: 2303002452).
- Songnuan, W., **Juprasong, Y.**, Sriksirin, T., & Pipatpanukul, C. Thai Petty Patent. Microarray Biochip for Detecting Tropical/Subtropical Pollen Allergen-Specific Immunoglobulin E. (Petty Patent Pending).
- Songnuan, W., & **Juprasong, Y.** Thai Petty Patent. Procedures for Detecting Tropical/Subtropical Pollen Allergen-Specific Immunoglobulin E Using Microarray Biochip. (Petty Patent Pending; Request No.: 2303002754).

PUBLICATIONS

- Aud-in, S., **Juprasong, Y.**, Pinkaew, B., Talek, K., Tantilipikorn, P., & Songnuan, W. Incidence of Grass and Weed Sensitization in Thailand: A Clinical Study. (*Submitted Manuscript*).
- Aud-in, S., **Juprasong, Y.**, Pinkaew, B., Talek, K., Tantilipikorn, P., & Songnuan, W. (2023). High incidence of nutsedge (*Cyperus mitis*) pollen sensitization among Thai allergic rhinitis patients (Conference Abstract). *Journal of the European Academy of Allergy and Clinical Immunology (EAACI)*.
- Juprasong, Y.**, and Songnuan, W. Updated Review: Allergy Diagnosis. (*Manuscript in Preparation*).
- Juprasong, Y.**, Sirirakphaisarn, S., Siriwattanukul, U., & Songnuan, W. (2022). Exploring the Effects of Seasons, Diurnal Cycle, and Heights on Airborne Pollen Load in a Southeast Asian Atmospheric Condition. *Frontiers in Public Health*, 10:1067034.
- Juprasong, Y.** & Songnuan, W. (2022). Changes in Production, Expression, and IgE Immunoreactivity of Tropical/Subtropical Grass Pollen Allergen as a Consequence of Environmental Dynamics (Conference Abstract). *Journal of the European Academy of Allergy and Clinical Immunology (EAACI)*.
- Juprasong, Y.** & Songnuan, W. (2022). Plant Stress Scenarios Differentially Affect Expression and IgE Reactivity of Grass Group-1 Allergen (β -Expansin) in Maize and Rice Pollen. *Frontiers in Allergy*, 3:807387.
- Juprasong, Y.**, Namphaithun, C., & Songnuan, W. (2020). Environmental Stress Influences Expression of Grass Group-1 Allergen/Beta-Expansin in Pollen of Maize and Rice (Conference Abstract). *World Allergy Organization Journal*, 13(8).
- Punwong, P., **Juprasong, Y.**, & Traiperm, P. (2017). Effects of an Oil Spill on the Leaf Anatomical Characteristics of a beach plant (*Terminalia catappa* L.). *Environmental Science and Pollution Research*, 24(27), 21821-21828.
- Juprasong, Y.**, Swangpol, S.C., Jenjittikul, T., & Traiperm, P. (2016). Leaf Anatomical Study and Phenetic Analysis of *Ipomoea* L. (Convolvulaceae) (Conference Abstract). *The 10th Botanical Conference of Thailand*.
- Juprasong, Y.**, Punwong, P., & Traiperm, P. (2016). The Effect of Oil Spill on Microstructure of Plant Leaf. (Conference Abstract). *The 17th Science Project Exhibition*.
- Juprasong, Y.**, Swangpol, S.C., Jenjittikul, T., & Traiperm, P. (2016). A Study in Leaf Anatomical Characteristics and Phenetic Analysis of *Ipomoea* L. (Convolvulaceae) (Conference Abstract). *The 17th Science Project Exhibition*.
- Juprasong, Y.**, Swangpol, S.C., Jenjittikul, T., & Traiperm, P. (2016). Phenetic Analysis of *Ipomoea* L. (Convolvulaceae) Based on Leaf Anatomical Characters (Conference Abstract). *The 2nd Thailand Undergraduate Research Forum in Plants and Genetics*.
- Juprasong, Y.**, Punwong, P., & Traiperm, P. (2015). The Effect of Oil Spill on Leaf Anatomical Structures of *Terminalia catappa* L. (Conference Abstract). *The 9th Botanical Conference of Thailand*.
- Juprasong, Y.**, Punwong, P., & Traiperm, P. (2014). The Effect of Oil spill on Leaf Epidermis of *Terminalia catappa* L.: A Case Study of Crude Oil Leakage in Rayong, Thailand (Conference Abstract). *Joint Symposium on "Frontier Research in Biodiversity and Agricultural Resources"*.

BOOKS AND BOOK CHAPTERS

- Juprasong, Y.** (2019). *Biostatistics for Undergraduate Students: Fundamentals of Biostatistical Procedures* (2nd ed.). Bangkok, Thailand: Graduate Program in Toxicology, Faculty of Science, Mahidol University.
- Juprasong, Y.** (2018). *Biostatistics for Undergraduate Students: Fundamentals of Biostatistical Procedures* (1st ed.). Bangkok, Thailand: Graduate Program in Toxicology, Faculty of Science, Mahidol University.
- Juprasong, Y.** (2018). *Concept for SCID516 Biostatistics*. Bangkok, Thailand: Graduate Program in Toxicology, Faculty of Science, Mahidol University.
- Juprasong, Y.** (2018). *Concept for GRID603 Biostatistics*. Bangkok, Thailand: Graduate Program in Toxicology, Faculty of Science, Mahidol University.
- Juprasong, Y.** (2014). Photosynthesis. In Puangpong S. (Editor), *Biology for High School Students: The 15th Science Access Project*. Bangkok, Thailand: Faculty of Science, Mahidol University.

ONLINE ARTICLES AND LECTURE NOTES

- Molecular Biology Lab Manual: RNA Extraction and Purification, and cDNA Synthesis
- Basic immunology and Associated Disorders
- Systemic Toxicology: Acetaminophen Induced Hepatotoxicity, Cadmium Toxicity, Physic Nuts and Its Toxicity
- Allergy Treatments: Pharmacological Medications
- Endocrine Pancreas: Insulin, Diabetes Mellitus, and Anti-Diabetic Drugs
- Statistics for Undergraduate Students: Fundamentals of Biostatistical Procedures
- Fundamental Biostatistics for Science and Medical Students: Principles and Procedures
- Exercise and Review Exam for Introduction of Statistics for Undergrad Students
- Biostatistics for Graduate Students: Biostatistics and Its Applications
- Manuals of Basic Biostatistical Analysis
- Concept of Art of Using Thai Language in Communication Vol. I-II
- Photosynthesis: Concept and Process, for High School Students
- Exercise and Review Test for Plant Morphology, Plant Anatomy, Plant Physiology, Plant Diversity, and Plant Ecology for High School Students
- Essential Concepts of Thai Language for High School Students

LOCAL, REGIONAL, AND INTERNATIONAL CONFERENCE PRESENTATIONS

1. Oral Presentations

- Juprasong, Y.,** Sriksirin, T., & Songnuan, W. A Study of Airborne Pollen, Its Major Allergen, and Development of Specific IgE Detection Array. Toxicology Research Day. Graduate Program in Toxicology, Medical and Graduate Education Division, Faculty of Science, Mahidol University, Bangkok, Thailand. March 2022.
- Juprasong, Y.,** Swangpol, S.C., Jenjittikul, T., & Traiperm, P. Leaf anatomical study and phenetic analysis of *Ipomoea* L. (Convolvulaceae). The 10th Botanical Conference of Thailand. Ubon Ratchathani University, Ubon Ratchathani, Thailand. June 2016.
- Juprasong, Y.,** Punwong, P., & Traiperm, P. The Effect of Oil Spill on Leaf Anatomical Structures of *Terminalia catappa* L. The 17th Science Project Exhibition. Faculty of Science, Mahidol University, Bangkok, Thailand. May 2016.
- Juprasong, Y.,** Swangpol, S.C., Jenjittikul, T., & Traiperm, P. Phenetic Analysis of *Ipomoea* L. (Convolvulaceae) Based on Leaf Anatomical Characters. The 2nd Thailand Undergraduate Research Forum in Plants and Genetics. Kasetsart university, Bangkok, Thailand. April 2016.
- Juprasong, Y.,** Punwong, P., & Traiperm, P. The Effect of Oil spill on Leaf Anatomical Structures of *Terminalia catappa* L. The 9th Botanical Conference of Thailand. Ambassador Hotel, Bangkok, Thailand. June 2015.

2. Poster Presentations

- Aud-in, S. (Representative), **Juprasong, Y.,** Pinkaew, B., Talek, K., Tantilipikorn, P., & Songnuan, W. Patterns of Grass and Weed Sensitization in Thai Allergic Rhinitis Patients. World Allergy Congress (WAC) 2023. World Ballroom Centara Grand & Bangkok Convention Centre at Central World, Bangkok, Thailand, December 2023.
- Aud-in, S. (Representative), **Juprasong, Y.,** Pinkaew, B., Talek, K., Tantilipikorn, P., & Songnuan, W. High Incidence of Nutsedge (*Cyperus mitis*) Pollen Sensitization Among Thai Allergic Rhinitis Patients. European Academy of Allergy and Clinical Immunology (EAACI) 2023 Hybrid Congress. Congress Center Hamburg CCH, Hamburg, Germany, June 2023.
- Juprasong, Y.** & Songnuan, W. Changes in Production, Expression, and IgE Immunoreactivity of Tropical/Subtropical Grass Pollen Allergen as a Consequence of Environmental Dynamics. European Academy of Allergy and Clinical Immunology (EAACI) 2022 Hybrid Congress. O₂ Universum, Prague, Czech Republic, June-July 2022.
- Juprasong, Y.,** Namphaithun J., & Songnuan, W. (Representative). Environmental Stress Influences Expression of Grass Group-1 Allergen/Beta-Expansin in Pollen of Maize and Rice. WAC 2019 World Allergy Congress. Lyon Cité Internationale, Lyon, France. December 2019.
- Juprasong, Y.,** Namphaithun J., & Songnuan, W. Environmental Stress Influences Expression of Grass Group-1 Allergen/ Beta-Expansin in Pollen of Maize and Rice. EHT Annual Meeting 2019: Strategic Planning for Innovations in Environmental Health. Chulabhorn Convention Center, Bangkok, Thailand. November 2019.
- Juprasong, Y.,** Sirirakphaisarn, S., Siriwattanukul, U., & Songnuan, W. Influence of Seasonal Variation, Diurnal Cycle and Height on Airborne Pollen in Bangkok, Thailand. The KAI International Meeting 2017. Sejong University, Seoul, Korea. November 2017.
- Juprasong, Y.,** Punwong, P., & Traiperm, P. The Effect of Oil spill on Leaf Anatomical Structures of *Terminalia catappa* L. The 17th Science Project Exhibition. Faculty of Science, Mahidol University, Bangkok, Thailand. May 2016.
- Juprasong, Y.,** Swangpol, S.C., Jenjittikul, T., & Traiperm, P. Phenetic Analysis of *Ipomoea* L. (Convolvulaceae) Based on Leaf Anatomical Characters. The 17th Science Project Exhibition. Faculty of Science, Mahidol University, Bangkok, Thailand. May 2016.
- Juprasong, Y.,** Punwong, P., & Traiperm, P. The Effect of Oil Spill on Leaf Epidermis of *Terminalia catappa* L.: A Case Study of Crude Oil Leakage in Rayong, Thailand. Joint Symposium on "Frontier Research in Biodiversity and Agricultural Resources". Mahidol University, Bangkok, Thailand. November 2014.

SERVICE AND ACTIVITIES

- 2023
- Attended the World Allergy Congress (WAC) 2023, Organized by the World Allergy Congress, at World Ballroom Centara Grand at Central World, Bangkok, Thailand
 - Attended the 39th Annual Meeting of the Allergy, Asthma, and Immunology Association of Thailand (AAIAT), Organized by the Allergy, Asthma, and Immunology Association of Thailand, at World Ballroom Centara Grand at Central World, Bangkok, Thailand
- 2022
- Moderator at MUSC New Graduate Student Orientation 2022, Organized by Medical and Graduate Education Division, Faculty of Science, Mahidol University, Bangkok, Thailand
 - Attended the AAIAT Allergy Practice Webinar, Organized by the Allergy, Asthma, and Immunology Association of Thailand, Bangkok, Thailand
 - Attended the Allergy & Respiratory Medicine 2022 in Bangkok, Thailand, Organized by Fondazione Internazionale Menarini, Centro Direzionale Milanofiori, Milan, Italy
 - Poster Presentation at the EAACI 2022 Hybrid Congress in Prague, Czech Republic, Organized by European Academy of Allergy & Clinical Immunology, Zurich, Switzerland
 - Modulator at the 7th Thailand Undergraduate Research Forum on Plants and Genetics (TURFPaG), Faculty of Science, Mahidol University, Bangkok, Thailand
 - Attended the 38th Annual Hybrid Meeting of the Allergy, Asthma, and Immunology Association of Thailand (AAIAT), Organized by the Allergy, Asthma, and Immunology Association of Thailand, Bangkok, Thailand
 - Speaker at Toxicology Research Day, Organized by Graduate Program in Toxicology, Medical and Graduate Education Division, Faculty of Science, Mahidol University, Bangkok, Thailand
- 2021
- Attended the 37th Annual Virtual Meeting of the Allergy, Asthma, and Immunology Association of Thailand (AAIAT), Organized by the Allergy, Asthma, and Immunology Association of Thailand, Bangkok, Thailand
 - Attended Online Training in Laboratory Safety Standard (Enhancement of Safety Practice of Research Laboratory in Thailand; ESPReL), Organized by Center for Occupational Safety, Health and Workplace Environment Management, Mahidol University, Thailand
 - Attended Online Training Course in the Reinventing University: Medical Innovation Development, Organized by Mahidol University, Bangkok, Thailand
 - Attended the Data Science for Healthcare and Clinical Informatics, Organized by Department of Clinical Epidemiology and Biostatistics, Faculty of Medicine Ramathibodi Hospital, Bangkok, Thailand
 - Attended the Systematic Review and Meta-Analysis, Organized by Department of Clinical Epidemiology and Biostatistics, Faculty of Medicine Ramathibodi Hospital, Bangkok, Thailand
 - Attended the Science Café: COVID-19 vol.2 "Current COVID-19 Situation in Thailand, Vaccine and Its Development, Organized by Faculty of Science, Mahidol University, Bangkok, Thailand
- 2020
- Attended the Japanese Society of Allergology/World Allergy Organization Joint Congress 2020, Conjoint Asia Pacific Association of Pediatric Allergy 2020 Congress (JSA/WAO Joint Congress 2020) Online Meeting Organized by WAC 2020, Kyoto, Japan
 - Attended the WAO International Scientific Conference, WISC 2020 Virtual Conference organized by World Allergy Organization
 - Attended the LinkedIn Webinar: Knowledge Beyond the University Walls organized by LinkedIn and the People Official Team
 - Attended the WAO Webinar: COVID-19 and Allergic Disease organized by World Allergy Organization
 - Attended the Webinar: Infectious Disease Outbreak Research: Insights and Trends organized by Bright-TALK, Elsevier
 - Attended the Special Seminar in Toxicology, in the Topic of Forsaken History and Development of Chemical and Biological Weapons Organized by Graduate Program in Toxicology, Faculty of Science, Mahidol University, Bangkok, Thailand
 - Speaker at Setup an Allergy Clinic in General Practice 2020, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand
 - Publicist at UK Education Fair 2020, Mahidol University Salaya Campus, Nakhonpatom, Thailand
 - Attended the Science Café: the Coronavirus Outbreak at Faculty of Science, Mahidol University, Bangkok, Thailand
- 2019
- Poster Presentation at EHT Annual Meeting 2019, Chulabhorn Convention Center, Bangkok, Thailand
 - Staff at the National Science Exhibition at IMPACT Muang Thong Thani, Nonthaburi, Thailand
 - Attended the Precision Medicine in Thailand 4.0 organized by Mahidol University at Pullman Bangkok King Power, Bangkok, Thailand
 - Staff and Presenter at the 100 Years of Prof. Stang Mongkolsuk: "One in a hundred", Faculty of Science, Mahidol University, Bangkok, Thailand
 - Attended the 35th Annual Meeting of the Allergy, Asthma & Immunology Association of Thailand (AAIAT), Organized by the Allergy, Asthma, and Immunology Association of Thailand, at World Ballroom Centara Grand at Central World, Bangkok, Thailand
 - Attended the Innovative Startup Pitching Contest: From Science to Startups Organized by Faculty of Science, Mahidol University, Bangkok, Thailand
 - Attended the Science Café: PM 2.5, the Critical Disaster? at Faculty of Science, Mahidol University, Bangkok, Thailand
 - Trainee (Graphical Abstract Design) at Biological Engineering Program, Faculty of Engineering, King Mongkut's University of Technology Thonburi (KMUTT), Bang Mot, Thung Khru, Bangkok, Thailand

SERVICE AND ACTIVITIES (CONT.)

- 2018
- Attended the Federation of Immunological Societies of Asia-Oceania (FIMSA) 2018 at Mandarin Hotel Bangkok, Bangkok, Thailand
 - Staff at MU Open House 2018, Mahidol University, Salaya campus, Nakhonpatom, Thailand
 - Attended the Joint Congress of the Asia Pacific Association of Allergy, Asthma and Clinical Immunology & the Asia Pacific Association of Pediatric Allergy, Respiratory and Immunology (APAAACI & APAPARI 2018) at World Ballroom Centara Grand & Bangkok Convention Centre at Central World, Bangkok, Thailand
 - Staff at the National Science Exhibition at IMPACT Muang Thong Thani, Nonthaburi, Thailand
 - Being Invited as an Alumnus for the MUSCPL B.Sc. Program Evaluation at Faculty of Science, Mahidol University, Bangkok, Thailand
 - Modulator at Botanical Art Worldwide Thailand Exhibition: The Beauty of Native Thai Plants, Bangkok Art and Culture Centre, Bangkok, Thailand
 - Modulator at the 4th Thailand Undergraduate Research Forum on Plants and Genetics (TURFPaG), Faculty of Science, Mahidol University, Bangkok, Thailand
 - Attended the 34th Annual Meeting of the Allergy, Asthma & Immunology Association of Thailand (AAIAT), Organized by the Allergy, Asthma, and Immunology Association of Thailand, at World Ballroom Centara Grand & Bangkok Convention Centre at Central World, Bangkok, Thailand
 - Staff at Thailand Children University 2018: Miracle of Pollen and Chromosome, organized by Department of Plant Science, Faculty of Science, Mahidol University, Bangkok, Thailand
 - Modulator at the 25th Anniversary MUSCPL, Department of Plant Science, Faculty of Science, Mahidol University, at Asia Hotel, Ratchathewi, Bangkok, Thailand
- 2017
- Staff at MU Open House 2017, Mahidol University, Salaya campus, Nakhonpatom, Thailand
 - Poster presentation at the KAI International Meeting 2017, Sejong University, Seoul, Korea
 - Modulator at the 11th Botanical Conference of Thailand (BCT) and the 1st Junior Botanical Conference of Thailand, Faculty of Science, Mahidol University, Bangkok, Thailand
 - Attended the 11th Botanical Conference of Thailand (BCT) and the 1st Junior Botanical Conference of Thailand, Faculty of Science, Mahidol University, Bangkok, Thailand
 - Training Human Ethics at Aditayadornkitikhun conference room, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand
- 2016
- Attended the 8th Princess Chulabhorn International Science Congress (Environmental Health: Inter-Linkages Among the Environment, Chemicals, and Infectious Agents) at Shangri-La Hotel, Bangkok, Thailand
 - Attended EHT Annual Meeting 2017 at Chulabhorn Convention Center, Bangkok, Thailand
 - Staff at MU open house 2016, Mahidol University, Salaya campus, Nakhonpatom, Thailand
- 2015
- Training in the 4th Advanced Plant Identification at Queen Sirikit Botanic Garden, Mae Rim, Chiang Mai, Thailand
 - Trainee at Sanga Sabhasri Research & Development Center, Queen Sirikit Botanic Garden, The Botanic Gardens Organization, Ministry of Natural Resources and Environment, Thailand
- 2014
- MUSC Young Volunteers under the cooperation of the Royal Initiative Discovery Foundation and Faculty of Science, Mahidol University
 - Academic Staff (Biology) at the 15th Science Access; Teaching Plant Morphology, Plant Anatomy, Plant Physiology, Introductory Ecology, Plant Diversity and Plant Reproduction and Development
 - MUSC Health Care Unit Coordinator at the 10th Academic Science Camp, Faculty of Science, Mahidol University, Thailand
- 2013
- MUSC Health Care Unit Staff, the 25th Mahidol Alternative Science (MAS) Camp
 - Teaching Photosynthesis at the 14th Science Access
 - MUSC Health Care Unit Coordinator at the 9th Academic Science Camp, Faculty of Science, Mahidol University, Thailand
 - Student President at Department of Plant Science, Faculty of Science, Mahidol University, Thailand
 - Attended the 4th Conference on Taxonomy and Systematics in Thailand (TST) at Chulalongkorn University, Bangkok, Thailand
- 2012
- MUSC Health Care Unit Staff at the 24th Mahidol Alternative Science (MAS) Camp, Faculty of Science, Mahidol University, Thailand

CERTIFICATIONS

- 2022
- Certificate of Completion on Fundamental Biosafety for BSL-2 (ID: T2022-1128-076), Organized by Faculty of Science, Mahidol University, Bangkok, Thailand
 - Certificate of Poster Presentation in EAACI Hybrid Congress 2022 at O₂ Universum in Prague, Czech Republic, Organized by European Academy of Allergy and Clinical Immunology (EAACI), Zurich, Switzerland
 - Certificate of Attendance in EAACI Hybrid Congress 2022 at O₂ Universum in Prague, Czech Republic, Organized by European Academy of Allergy and Clinical Immunology (EAACI), Zurich, Switzerland
- 2021
- Certificate of Online Training in CITI Program Course: Good Clinical Practice-Researcher Biological (ID: 46100394), Organized by Collaborative Institutional Training Initiative (CITI), Florida, USA
 - Certificate of Online Training in CITI Program Course: Biomedical Responsible Conduct of Research (ID: 46100396), Organized by Collaborative Institutional Training Initiative (CITI), Florida, USA
 - Certificate of Online Training in CITI Program Course: Information Privacy Security (IPS)-Researchers (ID: 46100809), Organized by Collaborative Institutional Training Initiative (CITI), Florida, USA

CERTIFICATIONS (CONT.)

- 2021
- Certificate of Online Training in CITI Program Course: Information Privacy Security (IPS)-Students and Instructors (ID: 46100395), Organized by Collaborative Institutional Training Initiative (CITI), Florida, USA
 - Certificate of Online Training in CITI Program Course: Human Subject Research-Biomedical Researchers (ID: 46100393), Organized by Collaborative Institutional Training Initiative (CITI), Florida, USA
 - Certificate of Achievement in Human Research Ethics (e-Learning), Organized by the National Science and Technology Development Agency (NSTDA), Ministry of Higher Education, Science, Research and Innovation, Thailand
 - Certificate of Achievement in Research Integrity (e-Learning), Organized by the National Science and Technology Development Agency (NSTDA), Ministry of Higher Education, Science, Research and Innovation, Thailand
 - Certificate of Completion in the Educational Activity Titled: WAO Precision Allergy Molecular Diagnostic Applications (PAMD@) Enduring (October 22, 2021 – October 22, 2022), Accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC)
 - Certificate of Attendance in APAAACI 2021, Organized by the Asia Pacific Association of Allergy, Asthma, and Clinical Immunology (APAAACI)
 - Certificate of Completion in the Educational Activity Titled: WAO Precision Allergy Molecular Diagnostic Applications (PAMD@) (October 22, 2021), Accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC)
 - Certificate of Completion in the Educational Activity Titled: WAO New Insights for the Optimal Management of Allergic Diseases (Enduring) (September 23, 2021 – September 23, 2022), Accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC)
 - Certificate of Completion in the Educational Activity Titled: WAO New Insights for the Optimal Management of Allergic Diseases (September 23, 2021), Accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC)
 - Certificate of Online Training in Laboratory Safety Standard (Enhancement of Safety Practice of Research Laboratory in Thailand; ESPReL), Organized by Center for Occupational Safety, Health and Workplace Environment Management, Mahidol University, Thailand
 - Certificate of GCP Online Training (ICH-GCP: E6 (R2)), Organized by Human Ethics and Clinical Research Committee, Faculty of Medicine, Thammasat University
 - Certificate of Soft Skills in Creating Infographics for Academic Purpose (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Soft Skills in Effective Presentation Technique (English Version) (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Soft Skills in Intercultural Communication and How to Create Your Awesome Presentation (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Soft Skills in Organizational Transformation: Private Sector Perspectives (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Soft Skills in Paper Exposure Project (Social Sciences) (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Soft Skills in Digital Literacy Training (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Soft Skills in How You Come Up with A Good Business Model (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Soft Skills in Special Lectures on Brain Coaches for Innovative Ideas (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Soft Skills in Strategies for Successfully Completing Doctoral Research (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Soft Skills in Time Management and Conflict Management Training (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Soft Skills in Transformative Learning Skills: Self Discovery (English Version) (Online), Organized by Faculty of Graduate Studies, Mahidol University, Thailand
 - Certificate of Attendance in Allergy Day Asia: 360° Management of CMPA, Organized by Reckitt-ASEAN, Webinar Secretariat, Medical Conference Partners
- 2020
- Certificate of Attendance in JSA/WAO Joint Congress 2020, Organized by World Allergy Organization (WAO)
 - Certificate of Attendance in WISA Virtual Conference 2020, Organized by World Allergy Organization (WAO)
- 2019
- Certificate of Completion in the Educational Activity Titled: WAO Urticaria & HAE Up-To-Date Symposium at WAF 2019 (June 15, 2019), Accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC)
 - Certificate of Membership, European Academy of Allergy and Clinical Immunology (EAACI), Zurich, Switzerland

CERTIFICATIONS (CONT.)

- 2018 - Certificate of Membership, American Academy of Allergy, Asthma and Immunology (AAAAI), Wisconsin, United State of America
- 2017 - Certificate of Soft Skills in Training Course on Biosafety, Organized by Faculty of Science, Mahidol University, Thailand
- 2016 - Certificate of Soft Skills in Generic Skills in Science Research, Organized by Faculty of Science, Mahidol University, Thailand
- Certificate of Completion in Basic Human Ethics, Organized by Faculty of Medicine, Siriraj Hospital, Mahidol University, Thailand

HONORS AND AWARDS

- 2019 - Outstanding Pitching Award (Project: Spillnage®), From Science to Startups, Awarded by Faculty of Science, Mahidol University, Bangkok, Thailand. February 2019.
- 2017 - Travel Grant Award, the KAI International Meeting 2017, Awarded by the Korean Association of Immunologists, Seoul, Korea. November 2017.
- Outstanding Academic Achievement Award, Awarded by Professor Tab Nilanidhi Foundation. March 2017.
- Excellent Academic Award, Awarded by Faculty of Science, Mahidol University, Bangkok, Thailand. January 2017.
- 2016 - Distinguished Oral Presentation Award (First Prize), the 2nd Thailand Undergraduate Research Forum in Plants and Genetics (TURFPAG2), Awarded by Department of Botany, Faculty of Science, Kasetsart University, Bangkok, Thailand. May 2016.
- Plenary Talk Award, the 17th Science Project Exhibition, Awarded by Faculty of Science, Mahidol University, Bangkok, Thailand. May 2016.
- 2015 - Honorary Award, the 57th anniversary of Faculty of Science, Mahidol University, Awarded by Faculty of Science, Mahidol University, Bangkok, Thailand. October 2015.
- Certificate of Outstanding Assistance and Social Contribution, Awarded by Government Pharmaceutical Organization (GPO), Ministry of Public Health, Thailand. October 2015.
- Complimentary Award of Oral Presentation, the 9th Botanical Conference of Thailand at Ambassador Hotel Bangkok, Department of Botany, Chulalongkorn University, Bangkok, Thailand. May 2015.
- 2014 - Outstanding Teaching Award (Popular Vote), the 15th Science Access, MUSC Student Association, Faculty of Science, Mahidol University, Bangkok, Thailand. April 2014.
- 2012 - Silver Medal of Best Admission Score (Thai), Organized by Da'Vance Academic School. December 2012.
- Bronze Medal of Best Admission Score (Social, Culture, Religion and History), Organized by Da'Vance Academic School. December 2012.
- 2011 - Complimentary Award of Social Laws Contest, Senior High School 2011, organized by Udon Thani Courts of Justice, Ministry of Justice. May 2011.
- 2008 - Bronze Medal of Best Poem, Junior High School, National Thai Student Handicraft Fair 2008, Ministry of Education. May 2008.
- Gold Medal of Best Poem, Junior High School, Udon Thani Student Handicraft Fair 2008. November 2008.

REFERENCES

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