Curriculum Vitae

SALINEE JANTRAPIROM, Ph.D.

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PERSONAL INFORMATION

Date of Birth:	16th June 1987
Citizenship:	Thai
Marital Status:	Married
Permanent address:	7/37, Suandok Rd.,Soi 6, Mueang Chiang Mai, Chiang Mai, Thailand 50200

RESEARCH INTEREST:

Drosophila modelling, neurological disorders and drug/compound discovery.

ACCADEMIC INFORMATION:

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KEYWORDS

Neurological disorders, proteostasis, Ubiquilins, *Drosophila melanogaster,* drug discovery.

EDUCATIONAL DETAILS:

2015-2018 Doctor of Philosophy in Biotechnology (Kyoto Institute of Technology, Japan)
**Thesis evaluation in August 2018*
Project Title: The role of *Drosophila* ubiquilin in neurological disorders
Area of Study: *Drosophila* modelling, gene manipulation, molecular biology, drug/compound screening

2012-2014 Master of Science in Pharmacology (Chiang Mai University, Thailand)
Project Title: Effects of liraglutide on neuronal insulin resistance
Area of Study: pharmacology, drug screening, neurons

2005-2009 Bachelor of Pharmacy, Second class honour (Chiang Mai University, Thailand)
Project Title: The effects of Tacrolimus induced type-2 diabetes mellitus in kidney transplant recipients
Area of Study: healthcare, clinical pharmacy, adverse drug reaction

HONOUR AND AWARDS

2009 Outstanding Academic Award, Faculty of Pharmacy, Chiang Mai University, Thailand
2010 The best performance of the year, GlaxoSmithKline (Thailand) Ltd., Bangkok, Thailand
2013 Outstanding Academic Achievement Award, Faculty of Medicine, Chiang Mai University, Thailand
2014 Outstanding Academic Achievement Award, Faculty of Medicine, Chiang Mai University, Thailand

RESEARCH EXPERIENCE

1 September 2025 – to present, Lecturer
Department of Pharmacology, Chiang Mai University

2 January 2021 – to August 2025, Researcher
Project Leader of *Drosophila* Centre for Human diseases and Drug discovery, Department of Pharmacology, Faculty of Medicine, Chiang Mai University, Thailand

2 January 2019 – December 2020, Researcher
Molecular Pharmacology and Drug Development research cluster, Department of Pharmacology, Faculty of Medicine, Chiang Mai University,
Thailand

1 January 2017 – 1 September 2018, Research Assistant
Applied biology department, Kyoto Institute of Technology, Kyoto, Japan

FUNDING DETAILS:

2025-2026: Collaborative CMU Visiting Professor Scholarship (Dr.Arnauld Monteil, Institution of Functional Genomics, France)

2025-2026: Fundamental Fund 2024: Principal Investigator of the sub-project#2 Unravelling the therapeutic mechanism of the phytochemicals for Motor- Neuron Diseases

2025-2026: Fundamental Fund 2024: Principal Investigator of the sub-project#1Unraveling neuroprotective effects of an anti-aging epigenetic regulator in neuroproteinopathy

2025: International Brain Research Organization (IBRO) associated school support 2025, Winter School on Neuroplasticity Across the Lifespan: Development, Aging, and Neurodegeneration Principal Investigator

2024-2025: Faculty of Medicine research funding (ERO1A in neurodegenerative diseases): Principal Investigator

2023-2024: Fundamental Fund 2024: Co-investigator

2023-2024: Innovation Grant 2023: Principal Investigator

2022-2023: PM2.5 and NCDs related Fund 2023: Principal Investigator

2022-2023: Faculty of Medicine research funding (Novel roles of YEATS2 in CNS): Principal Investigator

2021-2023: Genomic Thailand (Functional genomics of rare neurological diseases: *Drosophila* model)**,** Health Systems Research Institute: Co-Investigator

2021: Genomic Thailand (Pharmacogenomics: Mycophenolate mofetil)**,** Health Systems Research Institute: Co-Investigator

2021: Genomic Thailand (Pharmacogenomics: Clozapine)**,** Health Systems Research Institute: Co-Investigator

2020-2021: Advanced Insect Research Promotion Center (AIRPC), Kyoto Institute of Technology, Japan: Principal Investigator

2019-2020: Faculty of Medicine research funding (The effects of UBQLNs dysfunction on neurons): Principal Investigator

2019-2020: Young Investigator Research 2019 (Drug repurposing in TDP-43 proteinopathy): Principal Investigator

2019-2020: Advanced Insect Research Promotion Center (AIRPC), Kyoto Institute of Technology, Japan: Principal Investigator (UBQLNs in neurological disorders)

2019 Grant-in-Aid Japan Society of the Promotion of Science (JSPS) Core-to-Core program, B. Asia-Africa science platforms, Japan (traveling and accommodation grant)

PEER REVIEWED PUBLICATIONS:

1. Luca Lo Piccolo, **Salinee Jantrapirom**, Yoshitaka Nagai and Masamitsu Yamaguchi (2017). "FUS toxicity is rescued by the modulation of lncRNA hsr*ω* expression in *Drosophila melanogaster*." *SCIENTIFIC REPORTS* 7(1): 15660.
2. **Salinee Jantrapirom**, Luca Lo Piccolo, Hideki Yoshida, Masamitsu Yamaguchi (2018). "A new *Drosophila* model of *Ubqiuilin* knockdown shows the effects of impaired proteostasis on locomotive and learning abilities." *Experimental Cell Research* 362: 461-471.
3. **Salinee Jantrapirom**, Luca Lo Piccolo, Hideki Yoshida, Masamitsu Yamaguchi (2018). "Depletion of *Ubiquilin* induces an augmentation in soluble ubiquitinated *Drosophila* TDP-43 to drive neurotoxicity in the fly." *Biochimica et Biophysica Acta – Molecular Basis of Disease.* 1864: 3038-3049.
4. **Salinee Jantrapirom**, Deshou Cao, Jing Wang, Huey Hing, Christopher J. Tabone, Kathryn Lantz, J. Steven de Belle, Yu Tong Qiu, Han M. Smid, Masamitsu Yamaguchi, Lee G. Fradkin, Jasprina N. Noordemeer, Saranyapin Potikanond (2019). "Dystrophin is required for neuronal synaptic gain in the *Drosophila* olfactory circuit." *Brain Research*. 1712: 158-166.
5. **Salinee Jantrapirom**, Wutigri Nimlamool, Piya Temviriyanukul, Somaieh Ahmadian, Cody J. Locke, Graeme W. Davis, Masamitsu Yamaguchi, Jasprina N. Noordemeer, Lee G. Fradkin, Saranyapin Potikanond (2019). "Dystrobrevin is required postsynaptically for homeostatic potentiation at the *Drosophila* NMJ." *Biochimica et Biophysica Acta – Molecular Basis of Disease.* 1865: 1579-91.
6. **Salinee Jantrapirom*,** Luca Lo Piccolo and Masamitsu Yamaguchi (2019). "Non-Proteasomal UbA-UbL Family of Proteins in Neurodegeneration" *International Journal of Molecular Sciences*" (20), 1893.
7. Mattareeyapar Phaosri, **Salinee Jantrapirom**, Mingkwan Na Takuathung, Noppamas Soonthornchareonnon, Seewaboon Sireeratawong, Pensiri Buacheen, Pornsiri Pitchakarn, Wutigri Nimlamool, Saranyapin Potikanond (2019). "*Salacia chinensis* L. stem extract exerts the anti-fibrotic effects on human hepatic stellate, LX-2 cells through the inhibition of TGF-β1 induced SMAD2/3 signaling pathway" *International Journal of Molecular Sciences*. 20: 6314.
8. **Salinee Jantrapirom**, Wutigri Nimlamool, Nipon Chattipakorn, Siriporn Chattipakorn, Piya Temviriyanukul, Woorawee Inthachat, Piyarat Govitrapong, Saranyapin Potikanond (2020). "Liraglutide Suppresses Tau Hyperphosphorylation, Amyloid Beta Accumulation through Regulating Neuronal Insulin Signaling and BACE-1 Activity" *International Journal of Molecular Sciences*. 21: 1725.
9. **Salinee Jantrapirom,** Yosuke Enomoto, Jirarat Karinchai, Hideki Yoshida, Eiichiro Fukusaki, Shuichi Shimma, Masamitsu Yamaguchi (2020). "The depletion of ubiquilin in *Drosophila melanogaster* disturbs neurochemical regulation to drive activity and behavioral deficits" *SCIENTIFIC REPORTS*. 10: 5689.
10. **Salinee Jantrapirom,** Luca Lo Piccolo, Dumnoensun Pruksakorn, Saranyapin Potikanond, Wutigri Nimlamool (2020). "Ubiquilin Networking in Cancers" *Cancers.* 12: 1586.
11. Patcharin Phokaseam, **Salinee Jantrapirom**, Jirarat Karinchai, Hideki Yoshida, Masamitsu Yamaguchi, Panuwan Chantawannakul (2020). "Honeybee products and edible insect powders improve locomotive and learning abilities of Ubiquilin-knockdown *Drosophila*" *BMC Complement & Alternative Medicine*. 20(1):267.
12. **Salinee Jantrapirom**, Pannaphak Hirunsatitpron, Saranyapin Potikanond, Wutigri Nimlamool and Nutthiya Hanprasertpong (2021). "Pharmacological Benefits of Triphala: A Perspective for Allergic Rhinitis" *Frontiers in Pharmacology.* 12:628198.
13. Masamitsu Yamaguchi, Im-Soon Lee, **Salinee Jantrapirom**, Kojiro Suda, Hideki Yoshida (2021). "*Drosophila* models to study causative genes for human rare intractable neurological diseases." *Experimental Cell Research*. 403:112584.
14. Wutigri Nimlamool, Saranyapin Potikanond, Jirapak Ruttanapattanaku, Nitwara Wikan, Siriporn Okonogi, **Salinee Jantrapirom**, Pornsiri Pitchakarn, Jirarat Karinchai (2021). "*Curcuma amarissima* Extract Activates Growth and SurvivalSignal Transduction Networks to Stimulate Proliferationof Human Keratinocyte." *Biology*. 10(289).
15. **Salinee Jantrapirom**, Nut Koonrungsesomboon, Hideki Yoshida, Marco Candeias, Dumnoenson Pruksakorn, Luca Lo Piccolo (2021). "Long noncoding RNA-dependent methylation of nonhistone proteins" *WIREs RNA,* e1661.
16. Sutpirat Moonmuang, Parunya Chaiyawat, **Salinee Jantrapirom**, Dumnoenson Pruksakorn, Luca Lo Piccolo (2021). "Circulating Long Non-Coding RNAs as Novel Potential Biomarkers for Osteogenic Sarcoma." *Cancers (Basel)*. 13(16):4214
17. Luca Lo Piccolo, **Salinee Jantrapirom**, Sutpirat Moonmuang, Pimpisa Teeyakasem, Arnat Pasena, Patacha Suksakit, Pimlak Charoenkwan, Dumnoenson Pruksakorn, Nut Koonrungsesomboon (2021). "In search of TP53 mutational hot spots for Li-Fraumeni syndrome in Asian populations." *Trop Med Int Health*. 26(11):1401-1410.

18. Ranchana Yeewa, Pawita Chiaya, **Salinee Jantrapirom**, Vorasak Shotelersuk, Luca Lo Piccolo (2022). "Multifaceted roles of YEATS domain-containing proteins and novel links to neurological diseases." Cellular and Molecular Life Sciences. 79(3).
19. Masamitsu Yamaguchi, **Salinee Jantrapirom** , Luca Lo Piccolo, Hiroyuki Ida, Hideki Yoshida. Chapter 6 - *Drosophila* model of amyotrophic lateral sclerosis targeting FUS and ubiquilin. Handbook of Animal Models in Neurological Disorders, 2023
20. Luca Lo Piccolo, Takanari Umegawachi, Ranchana Yeewa, Saranyapin Potikanond, Wutigri Nimlamool, Virapong Prachayasittikul, Yusuke Gotoh, Hideki Yoshida, Masamitsu Yamaguchi and **Salinee Jantrapirom***. A novel Drosophila-based drug repurposing platform identified fingolimod as a potential therapeutic for TDP-43 proteinopathy. Neurotherapeutics, 2023
21. Luca Lo Piccolo, Ranchana Yeewa, Sureena Phosa, Titaree Yamsri, Daniel Calovi, Jutarop Phetcharaburanin, Manida Suksawat, Thanaporn Kulthawatsiri, Vorasuk Shotelersuk, **Salinee Jantrapirom***. A decline of FAME4-associating *YEATS2* gene impairs dopaminergic synaptic integrity and leads to seizure-like behaviors in *Drosophila melanogaster* Progress in Neurobiology, 2023.
22. Ranchana Yeewa, Apiwat Sangphukieo, Phatcharida Jantaree, Wasinee Wongkummool, Titaree Yamsri, Siwat Poompouang, Paranya Chaiyawat, Lo Piccolo Luca* and **Salinee Jantrapirom***. ERO1A inhibition mitigates neuronal ER stress and ameliorates UBQLN2^{ALS} phenotypes in *Drosophila melanogaster*. Progress in Neurobiology, 2024
23. Ranchana Yeewa, Sureeya Pohsa, Wasinee Wongkummool, Phatcharida Jantaree, Titaree Yamsri, Saranyapin Potikanond, Wuttigri Nimlamool, Vorasak Shotelersuk, Luca Lo Piccolo* and **Salinee Jantrapirom***. The histone acylation reader ENL/AF9 regulates aging in *Drosophila melanogaster*. Neurobiology of Aging 2024.
24. Luca Lo Piccolo, Ranchana Yeewa, Pitiporn Noisagul, Arnaud Monteil, Vorasuk Shotelersuk, **Salinee Jantrapirom***. Dopaminergic neurons are vulnerable to dysregulation of YEATS2-dependent calcium homeostasis. bioRxiv https://doi.org/10.1101/2025.09.06.674642
25. **Salinee Jantrapirom** AS, Natsinee U-on, Pattaporn Poonsawas, Wasinee Wongkumool, Ranchana Yeewa, Luca Lo Piccolo. Discovery of a pyrazolopyridine alkaloid inhibitor of ERO1A that mitigates neuronal ER stress and age-related decline. bioRxiv https://doi.org/10.1101/2025.07.14.664722
26. Ranchana Yeewa, Siwat Poompouang, Kornravee Photichai, Titaree Yamsri, Natsinee U-on, Wasinee Wongkummool, Phatsara Manussabhorn, Luca Lo Piccolo, **Salinee Jantrapirom***. Diesel exhaust particles induce lasting and age-dependent damage to the brain in Drosophila melanogaster. bioRxiv https://doi.org/10.1101/2025.08.20.671202

OTHER PUBLICATIONS AND RESEARCH OUTPUTS

1. **Salinee Jantrapirom**, Nipon Chattipakorn, Siriporn Chattipakorn and Saranyapin Potikanond. Chronic Hyperinsulinemia Led to the Development of Neuronal Insulin Resistance Model. 15th Khon Kean University Graduate Research Conference, 2014 (Oral presentation)
2. **Salinee Jantrapirom** and Masamitsu Yamaguchi. Development of Ubiquilin- ALS Model in *Drosophila Melanogaster*. Seminar on Asia Insect and Biomedical Research, 2016 (Oral presentation)
3. **Salinee Jantrapirom** and Masamitsu Yamaguchi. The Pan Neuronal *dUbqn* Knockdown Is A New Model To Study ALS In *Drosophila Melanogaster*, 68th Annual Meeting of the Japan Society of Cell Biology 2016 (Poster presentation)
4. **Salinee Jantrapirom**. *Drosophila* as a model for human degenerative diseases, Designing Experiments Workshop, 2017 (Oral presentation)
5. **Salinee Jantrapirom**, Luca Lo Piccolo, Hideki Yoshida and Masamitsu Yamaguchi. *Drosophila* Ubiquilin depletion reveals the impact of proteostasis impairment on locomotive and learning abilities, Joint annual Meeting of 70th JSCB and 51st JSDB, Cell and Developmental Biology Meeting, 2018 (Oral presentation)
6. Invited Speaker "Neurotoxicity in *Drosophila* model" 17 September 2020, Forensic Medicine and Toxicology Department, Faculty of Medicine, Chiang Mai University
7. Invited Speaker 463582: Hot issues in Pharmaceutical Sciences 30 November 2020 Faculty of Pharmacy, Chiang Mai University
8. Invited speaker, 3rd JAPAN-ASEAN Seminar 2022, "Establishment of research network for natural physiologically active substances by fusion of natural product chemistry and insect biomedical research" 28th January 2022
9. Speaker, CMUTEAM, The 1st Annual Conference 2022, "Drug screening in Drosophila: from pharmacological point of view to biological meaning" 15th February 2022, Faculty of Medicine, Chiang Mai University.

10. Speaker, Study and Job in Japan - Virtual Fair in Thailand 2022, Kyoto Institute of Technology (Alumni session), 15th March 2022.
11. Speaker, 4th JAPAN-ASEAN Seminar 2023. (Online session), 6th January 2022, Kyoto, Japan
12. Speaker, 5th JAPAN-ASEAN Seminar 2024. (Onsite session), 20th March, 2023, Kyoto, Japan
13. Speaker, International Brain Research Organization (IBRO) school 2025, Chiang Mai, Thailand
14. Speaker, Thailand Neuroscience Society 28th Annual meeting 2025, Chiang Mai University, Thailand