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Current Position: Ph.D. researcher in neuroscience
 Cardiac Electrophysiology Research and Training (CERT) Center
 (Neurophysiology unit)
 Faculty of Medicine
 Chiang Mai University, Chiang Mai, Thailand

Major Advisors: Distinguished Professor Dr. Siriporn Chattipakorn, DDS., Ph.D. and Distinguished Professor Dr. Nipon Chattipakorn, MD., Ph.D.

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H-index 8

Total Impact Factor: 84.1 (calculated as the sum of peer-reviewed articles)

Education

2024 Doctor of Philosophy (Physiology)
 Department of Physiology, Faculty of Medicine,
 Chiang Mai University, Chiang Mai, Thailand

2018 Bachelor of Science (Medical technology),
 Faculty of Associated Medical Science, Chiang Mai University,

Chiang Mai, Thailand

Honors and Awards

- 2025 Outstanding Graduate Award,
Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2025 Best in Publication with High Impact Factor,
Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2023 Travel fellowship, Alzheimer's association International Conference
(AAIC) 2023, Amsterdam, Netherlands.
- 2022 The Royal Golden Jubilee Ph.D. Program (RGJ Ph.D.) National Research
Council of Thailand (NRCT), Thailand
- 2021 Travel fellowship, Alzheimer's association International Conference
(AAIC) 2021, Denver. CO, USA. 2018
- 2019-2022 Ph.D. scholarship, Teaching Assistant and Research Assistant Scholarships
(TARA) Chiang Mai University, Thailand
- 2019 First-Class Honors (Golden Medal),
Bachelor of Science (Medical technology),
Faculty of Associated Medical Science,
Chiang Mai University, Chiang Mai, Thailand
- 2019 Outstanding Academic Achievement Award,
Faculty of Associated Medical Science,
Chiang Mai University, Chiang Mai, Thailand
- 2018 Outstanding Academic Achievement Award,
Faculty of Associated Medical Science,
Chiang Mai University, Chiang Mai, Thailand
- 2017 Outstanding Academic Achievement Award,
Faculty of Associated Medical Science,
- 2016 Outstanding Academic Achievement Award,
Faculty of Associated Medical Science,
Chiang Mai University, Chiang Mai, Thailand

Professional License

2019-present Medical Technology, Thailand

Organizations and Participation

2018-Present Thai Medical Technology Council

Peer-reviewed Articles

1. **Pantiya P**, Chattipakorn N, Chattipakorn SC. Exploring the role of CD147 in cerebrovascular and Alzheimer's pathologies: Insights into mechanisms and interventions. *Exp Neurol* 2025;395,115498. (Impact Factor = 4.2) Q1
2. Chunchai T, Pintana H, Kunasol C, **Pantiya P**, Arunsak B, Kerdphoo S, Nawara W, Donchada S, Apaijai N, Sripetchwandee J, Thonusin C, Chattipakorn N, Chattipakorn SC. Chronic High-Fat Diet Consumption Followed by Lipopolysaccharide Challenge Induces Persistent and Long-Lasting Microglial Priming, Mediates Synaptic Elimination via Complement C1q, and Leads to Behavioral Abnormalities in Male Wistar Rats. *Acta Physiol (Oxf)* 2025;241(6):e70060. (Impact Factor = 5.6) Q1
3. Imerb N, **Pantiya P**, Thonusin C, Chanpaisaeng K, Chattipakorn N, Charoenphandhu N, Chattipakorn SC. Osteoprotective effects of lifestyle interventions against obesity-induced bone dyshomeostasis and bone loss in rats. *J Endocrinol* 2025; JOE-25-0023. (Impact Factor = 3.4) Q2
4. Apaijai N, Attachaipanich T, Maneechote C, Pintana H, Thonusin C, Chunchai T, **Pantiya P**, Arunsak B, Kongkaew A, Chattipakorn N, Chattipakorn SC. Sodium-glucose cotransporter 2 inhibitor partially improves brain mitochondrial function, but does not mitigate cognitive impairment in rats with myocardial infarction. *Biochim Biophys Acta Mol Basis Dis* 2025;1871(5):167809. (Impact Factor = 4.2) Q1
5. Ongnok B, Prathumsap N, Chunchai T, **Pantiya P**, Arunsak B, Chattipakorn C, Chattipakorn SC. Nicotinic and muscarinic acetylcholine receptor agonists counteract cognitive impairment in a rat model of doxorubicin-induced chemobrain via attenuation of multiple programmed cell death pathways. *Mol Neurobiol* 2024;61(11):8831-8850. (Impact Factor = 5.1) Q1
6. **Pantiya P**, Guiard BP, Gotti G. Sensitive and fast detection of monoamines and their metabolites by high-performance liquid chromatography coupled with an electrochemical

- detector (HPLC-ECD) under isocratic conditions: application to intracerebral microdialysis in mice treated by fluoxetine and atomoxetine. *Chromatographia* 2024;87:175–185. (Impact factor = 1.7) Q3
7. Thonusin C, **Pantiya P**, Kongkaew A, Nawara W, Arunsak B, Sriwichaiin S, Chattipakorn N, Chattipakorn SC. Exercise and caloric restriction exert different benefits on skeletal muscle metabolism in aging condition. *Nutrients* 2023;15(23):5004. (Impact factor = 5.900) Q1
 8. **Pantiya P**, Thonusin C, Chunchai T, Pintana H, Ongnok B, Kongkaew A, Nawara W, Arunsak B, Chattipakorn N, Chattipakorn SC. Long-term lifestyle intervention is superior to transient modification for neuroprotection in D-galactose-induced aging rats. *Life sci* 2023;6:334:122248. (Impact factor = 6.100) Q1
 9. **Pantiya P**, Thonusin C, Ongnok B, Chunchai T, Kongkaew A, Nawara W, Arunsak B, Chattipakorn N, Chattipakorn SC. Chronic D-galactose administration induces natural aging characteristics, in rat's brain and heart. *Toxicology* 2023;492:153553. (Impact factor = 4.571) Q1
 10. **Pantiya P**, Thonusin C, Chunchai T, Ongnok B, Nawara W, Arunsak B, Chattipakorn N, Chattipakorn SC. Higher untrained fitness exerts a neuroprotection in Independence to caloric restriction or exercise in high-fat diet-induced obesity. *Exp Neuro* 2023;17:365:114416. (Impact factor = 5.620) Q1
 11. Chunchai, T, Pintana, H, Arinno, A, Ongnok, B, **Pantiya P**, Khuanjing, T, Prathumsap, N, Maneechote, C., Chattipakorn, N, Chattipakorn, SC. Melatonin and metformin counteract cognitive dysfunction equally in male rats with doxorubicin-induced chemobrain. *Neurotoxicology* 2022;94:158–171. (Impact factor = 4.398) Q2
 12. **Pantiya P**, Thonusin C, Sumneang N, Ongnok B, Chunchai C, Kerdphoo S, Jaiwongkam T, Arunsak B, Siri-Angkul N, Sriwichaiin S, Chattipakorn N, Chattipakorn SC. High cardiorespiratory fitness protects against molecular impairments of metabolism, heart, and brain with higher efficacy in obesity-induced premature aging. *Endocrinol Metab (Seoul)* 2022;37(4):630–640. (Impact factor = 3.607) Q2
 13. Chunchai T, Arinno A, Ongnok B, **Pantiya P**, Khuanjing T, Prathumsap N, Maneechote C, Chattipakorn C, Chattipakorn SC. Ranolazine alleviated cardiac/brain dysfunction in doxorubicin-treated rats. *Exp Mol Pathol* 2022;127:104818. (Impact factor = 3.362) Q2

14. Ongnok B, Maneechote C, Chunchai T, **Pantiya P**, Arunsak B, Nawara W, Chattipakorn C, Chattipakorn SC. Modulation of mitochondrial dynamics rescues cognitive function in rats with 'doxorubicin-induced chemobrain' via mitigation of mitochondrial dysfunction and neuroinflammation. *FEBS J* 2022;289(20):6435–6455. (Impact factor = 5.620) Q1
15. Thonusin C, **Pantiya P**, Sumneang N, Chunchai T, Nawara W, Arunsak B, Siri-Angkul N, Sriwichaiin S, Chattipakorn SC, Chattipakorn N. Effectiveness of high cardiorespiratory fitness in cardiometabolic protection in prediabetic rats. *Mol Med* 2022;10;28(1):31. (Impact factor = 6.354) Q1
16. Ongnok B, Khuanjing T, Chunchai T, **Pantiya P**, Kerdphoo S, Arunsak B, Nawara W, Jaiwongkam, Apaijai N, Chattipakorn N, Chattipakorn SC. Donepezil protects against doxorubicin-induced chemobrain in rats via attenuation of inflammation and oxidative stress without interfering with doxorubicin efficacy. *Neurotherapeutics* 2021;18(3):2107-2125. (Impact factor = 7.620) Q1
17. **Pantiya P**, Thonusin C, Chattipakorn N, Chattipakorn SC. Mitochondrial abnormalities in neurodegenerative models and possible interventions: Focus on Alzheimer's disease, Parkinson's disease, Huntington's disease. *Mitochondrion* 2020;55:14–47. (Impact factor = 3.992) Q2
18. Thonusin C, **Pantiya P**, Jaiwongkam T, Kerdphoo S, Arunsak B, Amput P, Palee S, Pratchayasakul W, Chattipakorn N, Chattipakorn SC. A proprotein convertase subtilisin/kexin type 9 inhibitor provides comparable efficacy with lower detriment than statins on mitochondria of oxidative muscle of obese estrogen-deprived rats. *Menopause* 2020;27(10):1155–1166. (Impact factor = 3.361) Q1
19. **Pantiya P**, Chairatanapiwong S, Dankai D, Nualkeaw S, Jaiping K, Singboottra P, Pornprasert S. False-positive result of immunochromatographic (IC) strip test for the diagnosis of α -thalassemia in samples with autoantibodies. *Clin Chem Lab Med* 2020;8;58(2):e44-e46. (Impact factor = 3.556) Q1

Conference Proceeding and Peer Reviewed Abstracts

1. Chunchai T, Pintana H, **Pantiya P**, Arunsak B, Donchada S, Kunasol C, Kerdphoo S, Nawara W, Thonusin C, Thiennimitr, Chattipakorn N, Chattipakorn SC. Probiotics lactobacillus reuteri KUB-AC5 exerts neuroprotective effects on brain pathologies and

- attenuates depressive-like behavior in obese insulin-resistant rats. *Alzheimer Dement* 2025 (in press) (Impact Factor = 13.0) Q1
2. Chunchai T, Pintana H, **Pantiya P**, Arunsak Bm, Lapto K, Donchada S, Pengain O, Kunasol C, Chattipakorn N, Chattipakorn SC. The administration of purinergic receptor P2X7 inhibitor alleviates depressive-like behavior in obese and lean rats with immune challenge. *Alzheimer Dement* 2025 (in press) (Impact Factor = 13.0) Q1
 3. **Pantiya P**, Chunchai T, Pintana H, Maneechate C, Arunsak B, Chattipakorn N, Chattipakorn SC. Neuroprotective effects of dapagliflozin on hippocampal adult neurogenesis and synaptic integrity in rats with doxorubicin-induced chemobrain. *Alzheimer Dement* 2025 (in press) (Impact Factor = 13.0) Q1
 4. Chunchai T, Chinchapo T, Pintana H, Ongnok B, **Pantiya P**, Arunsak B, Donchada S, Apaijai N, Pratchayasakul W, Chattipakorn N, Chattipakorn SC. Microglial priming induced by high-fat diet consumption causes complement C1q-mediated synaptic elimination leading to cognitive decline and depressive-like behavior. *Alzheimers Dement* 2024;20(Suppl. 1):e085030. (Impact Factor = 13.000) Q1
 5. **Pantiya P**, Thonusin C, Ongnok B, Chunchai T, Kongkaew A, Nawara W, Arunsak B, Chattipakorn N, Chattipakorn SC. Long-term D-galactose administration mimics natural aging in rat's hippocampus. *Alzheimers Dement* 2023;19(Suppl.13):e073540. (Impact Factor = 16.655) Q1
 6. Chanchalotorn S, **Pantiya P**, Thonusin C, Chunchai T, Ongnok B, Arunsak B, Chattipakorn N, Chattipakorn SC. Lifestyle modification exerts protection against obesity-induced neurodegeneration via CD147-related mechanism. *Alzheimers Dement* 2023;19(Suppl.13):e073546. (Impact Factor = 16.655) Q1
 7. Chinchapo T, Chunchai T, Pintana H, Ongnok B, **Pantiya P**, Jinawong K, Arunsak B, Janjek S, Kerdphoo S, Apaijai N, Pratchayasakul W, Chattipakorn N, Chattipakorn SC. A single dose of lipopolysaccharide injection exacerbates synaptic engulfment by microglia, and dendritic spine loss in high-fat diet-induced obese rats. *Alzheimers Dement* 2023;19(Suppl.13):e073537. (Impact Factor = 16.655) Q1
 8. Ongnok B, Prathumsap N, Chunchai T, Arunsak B, **Pantiya P**, Chattipakorn N, Chattipakorn SC. Acetylcholine receptor agonists exerted neuroprotection against doxorubicin-induced chemobrain. *Alzheimers Dement* 2023;19(Suppl.13):e073707. (Impact Factor = 16.655) Q1

9. Siripakkaphant C, Ongnok B, Prathumsap N, Khuanjing T, Chunchai T, Arunsak B, **Pantiya P**, Chattipakorn N, Chattipakorn SC. Vagus nerve stimulation provides neuroprotection against doxorubicin-induced chemobrain via activations of both muscarinic and nicotinic acetylcholine receptors. *Alzheimers Dement* 2023;19(Suppl.13):e073548. (Impact Factor = 16.655) Q1
10. **Pantiya P**, Thonusin C, Ongnok B, Chunchai T, Sumneang N, Chattipakorn N, Chattipakorn SC. High cardiorespiratory fitness exerts a neuroprotective effect against obesity, regardless of lifestyle modification. *Alzheimer's Dement* 2022;18(Suppl.4):e060494. (Impact factor = 16.655) Q1
11. Chunchai T, Ongnok B, **Pantiya P**, Arinno A, Khuanjing T, Prathumsap N, Maneechote C, Pintana H, Chattipakorn N, Chattipakorn SC. Melatonin improved brain pathologies and cognitive dysfunction in rats with trastuzumap-induced chemobrain. *Alzheimer's Dement* 2022;18(Suppl.3):e060277. (Impact factor = 16.655) Q1
12. Chunchai T, Arinno A, Ongnok B, **Pantiya P**, Khuanjing T, Prathumsap N, Maneechote C, Pintana H, Chattipakorn N, Chattipakorn SC. Ranolazine effectively ameliorated brain pathologies and cognitive decline in rats with trastuzumap-induced chemobrain. *Alzheimer's Dement* 2022;18(Suppl.3):e060281. (Impact factor = 16.655) Q1
13. Ongnok B, Khuanjing T, Chunchai T, Pintana H, **Pantiya P**, Chattipakorn N, Siriporn SC. Acetylcholinesterase inhibitor exerted neuroprotection against trastuzumab-induced chemobrain. *Alzheimer's Dement* 2022;18(Suppl. 3):e060495 (Impact factor = 16.655) Q1
14. **Pantiya P**, Thonusin C, Ongnok B, Chunchai T, Sumneang N, Chattipakorn N, Chattipakorn SC. The Predictive Effect of Cardiorespiratory Fitness (CRF) on Brain Aging in Normal Condition Versus Obesity-Induced Premature Aging. *Alzheimers Dement* 2021;17(Suppl.3):e050381. (Impact factor = 17.127) Q1
15. Ongnok B, Khuanjing T, Chunchai T, **Pantiya P**, Kerdphoo S, Jaiwongkam T, Apaijai N, Chattipakorn N, Chattipakorn SC. Acetylcholinesterase inhibitor provides neuroprotective effects against doxorubicin-induced chemobrain. *Alzheimers Dement* 2021;17(Suppl.3):e050377. (Impact factor = 17.127) Q1
16. Chunchai T, Ongnok B, **Pantiya P**, Arinno A, Khuanjing T, Prathumsap N, Maneechote C, Kerdphoo S, Jaiwongkam T, Chattipakorn N, Chattipakorn SC. Melatonin, metformin, and

ranolazine equally improved cognitive dysfunction in doxorubicin-induced chemobrain in rats. *Alzheimer Dement* 2021;17(Suppl.3):e050172. (Impact Factor = 17.127) Q1

17. Thonusin C, **Pantiya P**, Sumneang N, Sriwichaiin S, Chattipakorn N, Chattipakorn SC. The effect of exercise capacity on metabolic and cardiac aging in normal and obese rats. *Diabetes* 2021;70(Supplement_1):499-P. (Impact factor = 9.305) Q1
18. Thonusin C, **Pantiya P**, Sumneang N, Sriwichaiin S, Chattipakorn N, Chattipakorn SC. High cardiorespiratory fitness exerts metabolic protection in obese rats regardless of caloric restriction or short-term exercise. *Diabetes* 2020;70:1(Supplement_1):1404-P. (Impact factor = 9.461) Q1

Scientific Abstract Participation at International Meeting

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|-------------|--|
| July 2023 | Alzheimer's Association International Conference (AAIC) 2023, Amsterdam, Netherlands (Poster presenter) |
| August 2022 | Alzheimer's Association International Conference (AAIC) 2022, San Diego, California, United States (<u>Oral presenter</u> ; Session: Molecular & Cell Biology: Neurodegeneration and neuroprotection) |
| July 2021 | Alzheimer's Association International Conference (AAIC) 2021, Denver, Colorado, United States (Poster presenter) |

International Research Experience

- March-October 2023 Visiting Junior Fellow with Dr. Claire Rampon and Professor Dr. Bruno Guiard at the Research Center on Animal Cognition (CRCA), Center for Integrative Biology in Toulouse (CBI Toulouse), University Paul Sabatier, Toulouse, France.

Areas of Interest

Medical neurophysiology, neurodegenerative disorders, immunology, gerontology, obesity and metabolic disorders, lifestyle modifications, pharmacological interventions, medical technology