

Curriculum Vitae

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Current Position: Instructor, Department of Physiology, Faculty of Medicine,
Chiang Mai University, Chiang Mai, Thailand

EDUCATION

2018-2023 *Doctor of Philosophy Program in Physiology*, Department of Physiology,
Faculty of Medicine, Chiang Mai University
2013-2017 *Bachelor of Science Program in Medical Technology (First Class Honor)*
Medical Technology, Faculty of Associated Medical Sciences
Chiang Mai University, Chiang Mai, Thailand

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Total Impact Factor: 136.179

HONORS AND AWARDS

2025 *The National Research Award: Thesis Award*
National Research Council of Thailand, Bangkok, Thailand
2024 *The Best of the Year (Doctor of Philosophy, Bachelor's degree-based)*
Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2018 *Ph.D. Scholarship, The Royal Golden Jubilee Ph.D. Program (RGJ),*
The Thailand Research Fund, Bangkok, Thailand

- 2018 *Bachelor of Science Program in Medical Technology, First Class Honor, Gold Medal*
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,
Chiang Mai University, Chiang Mai, Thailand
- 2016 *Outstanding Academic Achievement Award,*
Faculty of Associated Medical Science,
Chiang Mai University, Chiang Mai, Thailand
- 2015 *Outstanding Academic Achievement Award,*
Faculty of Associated Medical Science,
Chiang Mai University, Chiang Mai, Thailand

RESEARCH GRANT SUPPORT

- 06/2024-06/2025 The Chiang Mai University Center of Excellence Award. “Cardiac Electrophysiology Research” (Co-PI)
- 10/2024-09/2025 The Chiang Mai University (Fundamental Fund; FF2025). “The study of the impact of air pollution on cardiovascular and neurological diseases” (Co-PI)
- 10/2024-09/2025 The Chiang Mai University (Fundamental Fund; FF2025). “The potential effect and mechanism of SGLT-2 inhibitors on doxorubicin-induced toxicity” (Co-PI)

PROFESSIONAL LICENSE

2018- Present Medical Technologist (Thailand)

ORGANIZATIONS AND PARTICIPATION

2018- Present Thai Medical Technology Council

INTERNATIONAL RESEARCH EXPERIENCE

July-December 2022 Visiting Junior Fellow with Professor Dr. Joseph A. Hill at the University
of Texas Southwestern Medical Center, Dallas, Texas, USA

MANUSCRIPT REVIEWER (ORCID: 0009-0002-3030-1675)

- Pharmacological Research (2 reviews completed)
- Free Radical Biology & Medicine (17 reviews completed)
- European Journal of Pharmacology (3 reviews completed)
- Advances in Medical Sciences (3 reviews completed)
- Biomedicine & pharmacotherapy (3 reviews completed)
- Heliyon (1 review completed)
- International Immunopharmacology (4 reviews completed)
- iScience (1 review completed)
- Tissue and Cell (1 review completed)
- Toxicology and Applied Pharmacology (1 review completed)
- Apoptosis (1 review completed)

AREAS OF INTEREST

- CD147
- Air pollution (PM_{2.5})
- Mitochondria
- Programmed cell death pathways
- Chemotherapy-induced cardiotoxicity
- Ischemic heart disease

SCIENTIFIC ABSTRACT PRESENTATION AT INTERNATIONAL MEETINGS

November 2022	The American Heart Association's Annual Scientific Sessions (AHA 2022) (Chicago, IL, USA)
April 2022	The American College of Cardiology's 71 st Annual Scientific Session & Expo (ACC 2022) (Washington, DC, USA)
May 2021	The American College of Cardiology's 70 th Annual Scientific Session & Expo (ACC 2021) (online platform)
September 2020	Annual Scientific Sessions, European Society of Cardiology (ESC) Congress (online platform)

PUBLICATIONS

PEER-REVIEWED ARTICLES

1. Maneechote C, **Khuanjing T**, Ongnok B, Arinno A, Prathumsap N, Chunchai T, Arunsak B, Nawara W, Chattipakorn SC, Chattipakorn N. Targeting mitochondrial dynamics emerges as an effective strategy of cardioprotection against trastuzumab-induced mitochondrial functional aberrations and cardiotoxicity in rats. *Eur J Pharmacol*. 2025;177685. (Impact Factor = 4.2) Q1
2. Thonusin C, **Khuanjing T**, Nawara W, Chattipakorn SC, Chattipakorn N. Alpha-7 nicotinic and muscarinic acetylcholine receptor agonists promote a favorable pattern of cardiac metabolic reprogramming in doxorubicin-induced heart failure rats. *Arch Biochem Biophys*. 2025;110427. (Impact Factor = 3.8) Q1
3. Prathumsap N, Ongnok B, **Khuanjing T**, Arinno A, Maneechote C, Chunchai T, Arunsak B, Kerdphoo S, Chattipakorn SC, Chattipakorn N. Muscarinic and nicotinic receptors stimulation by vagus nerve stimulation ameliorates trastuzumab-induced cardiotoxicity via reducing programmed cell death in rats. *Toxicol Appl Pharmacol* 2024;491:117074 (Impact Factor = 3.3) Q1
4. Suparan K, Sriwichain S, Thonusin C, Sripetchwandee J, **Khuanjing T**, Maneechote C, Nawara W, Arunsak B, Chattipakorn N, Chattipakorn SC. Donepezil Ameliorates Gut Barrier Disruption in Doxorubicin-treated Rats. *Food Chem Toxicol* 2024;189:114741. (Impact Factor = 4.3) Q1

5. Yarana C, Maneechote C, **Khuanjing T**, Ongnok B, Prathumsap N, Thanasrisuk S, Pattanapanyasat K, Chattipakorn SC, Chattipakorn N. Potential roles of 4HNE-adducted protein in serum extracellular vesicles as an early indicator of oxidative response against doxorubicin-induced cardiomyopathy in rats. *Curr Res Toxicol* 2023;5:100134. (Impact Factor = 3.3) Q2
6. **Khuanjing T***, Maneechote C*, Ongnok B, Prathumsap N, Arinno A, Chunchai T, Arunsak B, Chattipakorn SC, Chattipakorn N. Vagus Nerve Stimulation and Acetylcholinesterase Inhibitor Provide Cardioprotection Against Trastuzumab-Induced Cardiotoxicity in Rats by Attenuating Mitochondrial Dysfunction. *Biochem Pharmacol* 2023;217:115836. (Impact Factor = 5.8) Q1
7. **Khuanjing T**, Maneechote C, Ongnok B, Prathumsap N, Arinno A, Chunchai T, Arunsak B, Chattipakorn SC, Chattipakorn N. Acetylcholinesterase inhibition protects against trastuzumab-induced cardiotoxicity through reducing multiple programmed cell death pathways. *Mol Med* 2023;29(1):123. (Impact Factor = 5.7) Q1
8. Prathumsap N, Ongnok B, **Khuanjing T**, Arinno A, Maneechote C, Chunchai T, Arunsak B, Kerdphoo S, Chattipakorn SC, Chattipakorn N. Acetylcholine receptor agonists effectively attenuated multiple program cell death pathways and improved left ventricular function in trastuzumab-induced cardiotoxicity in rats. *Life Sci* 2023;329:121971. (Impact Factor = 6.78) Q1
9. Thonusin C, Nawara W, Arinno A, **Khuanjing T**, Prathumsap N, Ongnok B, Chattipakorn SC, Chattipakorn N. Effects of melatonin on cardiac metabolic reprogramming in doxorubicin-induced heart failure rats: A metabolomics study for potential therapeutic targets. *J Pineal Res* 2023;75(1):e12884. (Impact Factor = 12.081) Q1
10. Arinno A*, Maneechote C*, **Khuanjing T**, Prathumsap N, Chunchai T, Arunsak B, Nawara W, Kerdphoo S, Shinlapawittayatorn K, Chattipakorn SC, Chattipakorn N. Melatonin and metformin ameliorated trastuzumab-induced cardiotoxicity through the modulation of mitochondrial function and dynamics without reducing its anticancer efficacy. *Biochim Biophys Acta Mol Basis Dis* 2023;1869(2):166618. (Impact Factor = 6.633) 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* 2023;94:158-71. (Impact Factor = 4.398) Q2
12. Thonusin C, Nawara W, **Khuanjing T**, Prathumsap N, Arinno A, Ongnok B, Arunsak B, Sriwichaiin S, Chattipakorn SC, Chattipakorn N. Blood metabolomes as non-invasive biomarkers and targets of metabolic interventions for doxorubicin and trastuzumab-induced cardiotoxicity. *Arch Toxicol* 2023;97(2):603-18. (Impact Factor = 6.168) Q1
13. Prathumsap N, Ongnok B, **Khuanjing T**, Arinno A, Maneechote C, Apaijai N, Chunchai T, Arunsak B, Kerdphoo S, Janjek S, Chattipakorn SC, Chattipakorn N. Vagus nerve stimulation exerts cardioprotection against doxorubicin-induced cardiotoxicity through inhibition of programmed cell death pathways. *Cell Mol Life Sci* 2022;80(1):21. (Impact Factor = 9.207) Q1
14. Yarana C, Siwaponanan P, Maneechote C, **Khuanjing T**, Ongnok B, Prathumsap N, Chattipakorn SC, Chattipakorn N, Pattanapanyasat K. Extracellular Vesicles Released after Doxorubicin Treatment in Rats Protect Cardiomyocytes from Oxidative Damage and Induce Pro-Inflammatory Gene Expression in Macrophages. *Int J Mol Sci* 2022;23(21):13465. (Impact Factor = 6.208) Q1
15. Chunchai T*, Arinno A*, Ongnok B, Pantiya P, **Khuanjing T**, Prathumsap N, Maneechote C, Chattipakorn N, Chattipakorn SC. Ranolazine alleviated cardiac/brain dysfunction in doxorubicin-treated rats. *Exp Mol Pathol* 2022;127:104818. (Impact Factor = 4.401) Q2
16. Maneechote C, **Khuanjing T**, Ongnok B, Arinno A, Prathumsap N, Chunchai T, Arunsak B, Nawara W, Chattipakorn SC, Chattipakorn N. Promoting mitochondrial fusion in doxorubicin-induced cardiotoxicity: a novel therapeutic target for cardioprotection. *Clin Sci (Lond)* 2022;136(11):841-60. (Impact Factor = 6.124) Q1
17. Prathumsap N, Ongnok B, **Khuanjing T**, Arinno A, Maneechote C, Apaijai N, Chunchai T, Arunsak B, Shinlapawittayatorn K, Chattipakorn SC, Chattipakorn N. Acetylcholine receptor agonists provide cardioprotection in doxorubicin-induced cardiotoxicity via modulating muscarinic M₂ and $\alpha 7$ nicotinic receptor expression. *Transl Res* 2022;243:33-51. (Impact Factor = 7.012) Q1

18. **Khuanjing T**, Ongnok B, Maneechote C, Siri-Angkul N, Prathumsap N, Arinno A, Chunchai T, Arunsak B, Chattipakorn SC, Chattipakorn N. Acetylcholinesterase inhibitor ameliorates doxorubicin-induced cardiotoxicity through reducing RIP1-mediated necroptosis. *Pharmacol Res* 2021;13(173):105882. (Impact Factor = 7.658) Q1
19. Arinno A, Maneechote C, **Khuanjing T**, Ongnok B, Prathumsap N, Chunchai T, Arunsak B, Kerdphoo S, Shinlapawittayatorn K, Chattipakorn SC, Chattipakorn N. Cardioprotective effects of melatonin and metformin against doxorubicin-induced cardiotoxicity in rats are through preserving mitochondrial function and dynamics. *Biochem Pharmacol* 2021;192:114743. (Impact Factor = 5.858) Q1
20. Ongnok B, **Khuanjing T**, Chunchai T, Pantiya P, Kerdphoo S, Arunsak B, Nawara W, Jaiwongkam T, 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):2107-25. (Impact Factor = 7.620) Q1
21. **Khuanjing T**, Palee S, Kerdphoo S, Jaiwongkam T, Anomasiri A, Chattipakorn SC, Chattipakorn N. Donepezil attenuated cardiac ischemia/reperfusion injury through balancing mitochondrial dynamics, mitophagy, and autophagy. *Transl Res* 2021;230:82-97. (Impact Factor = 5.411) Q1
22. Ongnok B, **Khuanjing T**, Chunchai T, Kerdphoo S, Jaiwongkam T, Chattipakorn N, Chattipakorn SC. Donepezil provides neuroprotective effects against brain injury and Alzheimer's pathology under conditions of cardiac ischemia/reperfusion injury. *Biochim Biophys Acta Mol Basis Dis* 2021;1867(1):165975. (Impact Factor = 4.352) Q1
23. **Khuanjing T**, Palee S, Chattipakorn SC, Chattipakorn N. The effects of acetylcholinesterase inhibitors on the heart in acute myocardial infarction and heart failure: From cells to patient reports. *Acta Physiol (Oxf)* 2020;228(2):e13396. (Impact Factor = 5.868) Q1

PEER-REVIEWED ABSTRACTS

1. Maneechote C, **Khuanjing T**, Ongnok B, Arinno A, Prathumsap N, Chunchai T, Arunsak B, Kerdphoo S, Chattipakorn SC, Chattipakorn N. Upregulation of mitochondrial fusion as potential cardioprotective strategies against trastuzumab-induced cardiotoxicity in rats. *Eur Heart J* 2023;44(Supplement_2):ehad655.3124 (Impact Factor = 35.855) Q1
2. Thonusin C, Nawara W, Arinno A, **Khuanjing T**, Prathumsap N, Ongnok B, Chattipakorn SC, Chattipakorn N. Melatonin attenuates an impairment of metabolic reprogramming in doxorubicin-induced cardiotoxicity: Insights from metabolomics study in rats. *Eur Heart J* 2023;44(Supplement_2):ehad655.3073 (Impact Factor = 35.855) Q1
3. Maneechote C, Ongnok B, **Khuanjing T**, Arinno A, Prathumsap N, Chunchai T, Arunsak B, Nawara W, Chattipakorn N, Chattipakorn SC. Pharmacologically targeted mitochondrial fission/fusion performs neuroprotection against trastuzumab-induced cognitive deficits in rats via suppressing mitochondrial dysfunction and oxidative stress. *Alzheimers Dement* 2023;19(S13):e072382 (Impact Factor = 16.655) Q1
4. 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(S13):e073548 (Impact Factor = 16.655) Q1
5. Ongnok B, **Khuanjing T**, Chunchai T, Pintana H, Pantiya P, Chattipakorn N, Chattipakorn SC. Acetylcholinesterase Inhibitor Exerted Neuroprotection Against Trastuzumab-Induced Chemobrain. *Alzheimers Dement* 2022;18:e060495. (Impact Factor = 16.655) Q1
6. Suparan K, Ongnok B, **Khuanjing T**, Thonusin C, Chattipakorn N, Chattipakorn SC. Donepezil prevents cognitive impairment and gut epithelial disruption in doxorubicin-treated rats. *Alzheimers Dement* 2022;18:e060511. (Impact Factor = 16.655) Q1
7. 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. *Alzheimers Dement* 2022;18:e060277. (Impact Factor = 16.655) Q1

8. 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 Trastuzumab-Induced Chemobrain. *Alzheimer's Dement* 2022;18:e060281. (Impact Factor = 16.655) Q1
9. **Khuanjing T**, Maneechote C, Ongnok B, Prathumsap N, Arinno A, Chunchai T, Arunsak B, Chattipakorn SC, Chattipakorn N. Pharmacological and Non-Pharmacological Parasympathomimetic Interventions Prevent Trastuzumab-Induced Cardiotoxicity Through Attenuating Impaired Mitochondrial Function. *Circulation* 2022;146(Suppl_1):A11205-A. (Impact Factor = 39.918) Q1
10. Maneechote C, **Khuanjing T**, Ongnok B, Arinno A, Prathumsap N, Chunchai T, Arunsak B, Kerdphoo S, Chattipakorn SC, Chattipakorn N. Inhibition of Cardiac Mitochondrial Fission as an Effective Intervention Against Trastuzumab-Induced Cardiotoxicity in Rats. *Circulation* 2022;146(Suppl_1):A9418-A. (Impact Factor = 39.918) Q1
11. Prathumsap N, Ongnok B, **Khuanjing T**, Arinno A, Maneechote C, Chunchai T, Arunsak B, Kerdphoo S, Chattipakorn SC, Chattipakorn N. Acetylcholine Receptor Agonists Exert Cardioprotection Against Trastuzumab-Induced Cardiotoxicity by Attenuating NLRP3/GSDMD-Mediated Pyroptosis. *Circulation* 2022;146(Suppl_1):A11231-A. (Impact Factor = 39.918) Q1
12. Thonusin C, Nawara W, **Khuanjing T**, Prathumsap N, Arinno A, Ongnok B, Arunsak B, Sriwichaiin S, Chattipakorn SC, Chattipakorn N. Blood Metabolomes as Non-Invasive Biomarkers and Targets of Metabolic Interventions for Doxorubicin- and Trastuzumab-Induced Heart Failure. *Circulation* 2022;146(Suppl_1):A11203-A. (Impact Factor = 39.918) Q1
13. **Khuanjing T**, Maneechote C, Ongnok B, Prathumsap N, Arinno A, Chunchai T, Arunsak B, Chattipakorn SC, Chattipakorn N. Cardiac autonomic modulation with donepezil attenuates pyroptosis and mitochondrial dysfunction, leading to improved left ventricular function in trastuzumab-induced cardiotoxicity in rats. *Eur Heart J* 2022;43(Supplement_2):ehac544.2570. (Impact Factor = 29.983) Q1

14. **Khuanjing T**, Ongnok B, Prathumsap N, Arinno A, Maneechote C, Chunchai T, Arunsak B, Chattipakorn SC, Chattipakorn N. Acetylcholinesterase inhibition as a new therapeutic target against trastuzumab-induced cardiotoxicity via attenuating cardiac mitochondrial oxidative stress and inflammation in rats. *J Am Coll Cardiol* 2022;79(9_Supplement):1908. (Impact Factor = 24.094) Q1
15. Prathumsap N, Ongnok B, **Khuanjing T**, Arinno A, Maneechote C, Apaijai N, Chunchai T, Arunsak B, Shinlapawittayatorn K, Chattipakorn SC, Chattipakorn N. Modulating cardiac autonomic balance by vagus nerve stimulation attenuates mitochondrial dysfunction and provides protection against trastuzumab-induced cardiotoxicity. *J Am Coll Cardiol* 2022;79(9_Supplement):1945. (Impact Factor = 24.094) Q1
16. Arinno A, Maneechote C, **Khuanjing T**, Chunchai T, Prathumsap N, Arunsak B, Shinlapawittayatorn K, Chattipakorn SC, Chattipakorn N. Ranolazine administration effectively alleviates trastuzumab-induced cardiotoxicity through modulation of mitochondrial function in rats. *J Am Coll Cardiol* 2022;79(9_Supplement):1928. (Impact Factor = 24.094) Q1
17. Arinno A, Maneechote C, **Khuanjing T**, Chunchai T, Prathumsap N, Arunsak B, Kerdphoo S, Shinlapawittayatorn K, Chattipakorn SC, Chattipakorn N. Melatonin and metformin exert cardioprotection against trastuzumab-induced cardiotoxicity through modulating cardiac mitochondrial dynamics in rats. *Circulation* 2021;144(Suppl_1):A9375-A. (Impact Factor = 29.69) Q1
18. Maneechote C, **Khuanjing T**, Ongnok B, Arinno A, Prathumsap N, Chunchai T, Arunsak B, Kerdphoo S, Chattipakorn SC, Chattipakorn N. Rescuing Mitochondrial fusion/fission balance mitigates oxidative stress, myocardial injury and apoptosis in rats with doxorubicin-induced cardiotoxicity. *Circulation* 2021;144(Suppl_1):A9380-A. (Impact Factor = 29.69) Q1
19. Prathumsap N, Ongnok B, **Khuanjing T**, Arinno A, Maneechote C, Apaijai N, Chunchai T, Arunsak B, Kerdphoo S, Shinlapawittayatorn K, Chattipakorn SC, Chattipakorn N. Vagus nerve stimulation exerts cardioprotection against doxorubicin-induced cardiotoxicity through improving cardiac mitochondrial function and autonomic tone. *Circulation* 2021;144(Suppl_1):A9480-A. (Impact Factor = 29.69) Q1

20. Liao S, Luo Y, Wu J, Chunchai T, Ongnok B, **Khuanjing T**, Benjanuwattra J, Apaijai N, Chattipakorn N, Chattipakorn SC. Ferroptosis Inhibitors Reduce Brain Inflammation Due to Cardiac Ischemia/Reperfusion Injury in Rats. *Circulation* 2021;144(Suppl_1):A9484-A. (Impact Factor = 29.69) Q1
21. Arinno A, Maneechote C, **Khuanjing T**, Chunchai T, Prathumsap N, Ongnok B, Arunsak B, Jaiwongkam T, Kerdphoo S, Shinlapawittayatorn K, Chattipakorn SC, Chattipakorn N. Ranolazine exerted cardioprotection against doxorubicin-induced cardiotoxicity through inhibiting excessive autophagy in rats. *Eur Heart J* 2021;42(Supplement_1):ehab724.3012. (Impact Factor = 22.673) Q1
22. **Khuanjing T**, Ongnok B, Prathumsap N, Arinno A, Maneechote C, Chunchai T, Shinlapawittayatorn K, Arunsak B, Jaiwongkam T, Kerdphoo S, Chattipakorn SC, Chattipakorn N. Acetylcholinesterase inhibitor ameliorates cardiac dysfunction through reducing necroptosis in doxorubicin-induced cardiotoxicity in rats. *J Am Coll Cardiol* 2021;77(18_Supplement_1):3303. (Impact Factor = 20.589) Q1
23. Arinno A, Shinlapawittayatorn K, Maneechote C, **Khuanjing T**, Chunchai T, Prathumsap N, Ongnok B, Arunsak B, Jaiwongkam T, Kerdphoo S, Chattipakorn SC, Chattipakorn N. Melatonin, metformin, and ranolazine protect heart against doxorubicin-induced cardiotoxicity through modulating cardiac mitochondrial dynamics in rats. *J Am Coll Cardiol* 2021;77(18_Supplement_1):3301. (Impact Factor = 20.589) Q1
24. Maneechote C, **Khuanjing T**, Ongnok B, Arinno A, Prathumsap N, Chunchai T, Arunsak B, Jaiwongkam T, Kerdphoo S, Chattipakorn SC, Chattipakorn N. Mitochondrial fission inhibitor and fusion promoter improve left ventricular function in rats with doxorubicin-induced cardiotoxicity. *J Am Coll Cardiol* 2021;77(18_Supplement_1):3300. (Impact Factor = 20.589) Q1
25. Prathumsap N, Ongnok B, **Khuanjing T**, Arinno A, Maneechote C, Chunchai T, Shinlapawittayatorn K, Arunsak B, Jaiwongkam T, Kerdphoo S, Chattipakorn SC, Chattipakorn N. Acetylcholine receptor agonists attenuate doxorubicin-induced cardiac dysfunction and autonomic imbalance via improving mitochondrial function in rats. *J Am Coll Cardiol* 2021;77(18_Supplement_1):3299. (Impact Factor = 20.589) Q1

26. Ongnok B, **Khuanjing T**, Chunchai T, Kerdphoo S, Jaiwongkam T, Pantiya P, Apaijai N, Chattipakorn N, Chattipakorn SC. Acetylcholinesterase inhibitor provides neuroprotective effects against doxorubicin-induced chemobrain. *Alzheimers Dement* 2021;17(S3):e050377. (Impact Factor = 21.566) Q1
27. **Khuanjing T**, Palee S, Chattipakorn SC, Chattipakorn N. Acetylcholinesterase inhibitor protects against cardiac ischaemia/reperfusion injury via enhancing mitophagy and rebalancing mitochondrial dynamics. *Eur Heart J* 2020;41(2):ehaa946.3639. (Impact Factor = 22.673) Q1