Curriculum Vitae

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Current Position: *Distinguished Professor* of Cardiac Electrophysiology
Faculty of Medicine, Chiang Mai University
Director,
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School of Pharmaceutical Sciences,
Wenzhou Medical University, Wenzhou, China
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Kumamoto University, Kumamoto, Japan

EDUCATION

1992	*Doctor of Medicine (M.D.)* Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
1994	*Graduate Diploma in Clinical Science* Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
1998	*Ph.D.* (Physiology and Biophysics - Cardiac Electrophysiology), University of Alabama at Birmingham, Birmingham, Alabama, USA
1998-1999	*Cardiac Electrophysiology Post-doctoral Fellow* Division of Cardiovascular Diseases, Department of Medicine University of Alabama at Birmingham, Alabama, USA

ACADEMIC RANKING

2019-Present	*Visiting Professor*, School of Medicine, Kumamoto University, Kumamoto, Japan
2014-Present	*Visiting Professor*, School of Pharmaceutical Sciences, Wenzhou Medical University, Wenzhou, China
2024-2025	*Distinguished Professor* (Level 4, Year 1) (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับสูง ขั้นที่ 4 ปีที่ 1-แต่งตั้งภายในคณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2023-2024	*Distinguished Professor* (Level 3, Year 3) (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับสูง ขั้นที่ 3 ปีที่ 3-แต่งตั้งภายในคณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2022-2023	*Distinguished Professor* (Level 3, Year 2) (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับสูง ขั้นที่ 3 ปีที่ 2-แต่งตั้งภายในคณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2021-2022	*Distinguished Professor* (Level 3, Year 1) (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับสูง ขั้นที่ 3 ปีที่ 1-แต่งตั้งภายในคณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2020-2021	*Distinguished Professor* (Level 2, Year 3) (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับสูง ขั้นที่ 2 ปีที่ 3-แต่งตั้งภายในคณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2012-Present	*Distinguished Professor* (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับ 11), Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

PROFESSIONAL ACADEMIC APPOINTMENTS

2005-Present	*Director*, Cardiac Electrophysiology Research and Training Center (CERT) (ศูนย์วิจัยและฝึกอบรมสาขาโรคทางไฟฟ้าของหัวใจ), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2013-Present	*Director*, Center of Excellence in Cardiac Electrophysiology Research, Chiang Mai University, Chiang Mai, Thailand
2021-Present	*Honorary Advisor to the Department Chair*, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

2003-Present *Head*, Cardiac Electrophysiology Unit, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

PAST APPOINTMENTS

07/2013-07/2021 *Department Chair*,
Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

PROFESSIONAL LICENSE

1992-Present M.D. (Thailand)

ORGANIZATIONS AND PARTICIPATION

2012-Present Thai Academy of Science and Technology Foundation
2012-Present The Endocrine Society USA
2016-Present *Honorary Member of the Science Society of Thailand*, The Science Society of Thailand under the Patronage of H.M. the King
2018-Present *Honorary Member*, Thai Association for Laboratory Animal Science (TALAS)
2019-Present *Honorary Member of the Heart Association of Thailand* under the Royal Patronage of H.M. the King

PUBLICATIONS

EDITORIAL COMMENTS

1. Kao Y-H, Chen Y-J, Higa S, **Chattipakorn N**, Santulli G. Transcription factors and arrhythmogenesis. *Front Physiol* 2023;14:1169747. (Impact Factor = 4.755) Q1
2. **Chattipakorn N**. Cardiac ferroptosis: New jigsaw in SCD puzzles. *Blood* 2022;139:811-812. (Impact Factor = 22.113) Q1
3. Phrommintikul A, Chattipakorn SC, **Chattipakorn N**. Exercise and cardioprotection: A "HIP" side of HIPK2 in the heart. *EBioMedicine* 2022;75:103766. (Impact Factor = 8.141) Q1

PEER REVIEWED ARTICLES

1. Maethungkul R, Sangsin A, **Chattipakorn N**, Chattipakron SC. Exploring the multifaceted impact of bisphosphonates on bone graft integration: transitioning from In Vivo insights to clinical applications. *Arch Toxicol* 2025;99(5):2157-2178. (Impact Factor = 4.8) Q1
2. Amantakul A, Amantakul A, Pojchamarnwiputh S, **Chattipakorn N**, Chattipakorn SC, Sripetchwandee J. Targeting mitochondria and programmed cell deaths as potential interventions for metastatic castration resistant prostate cancer. *Clin Transl Oncol* 2025;27(7):2852-2875 (Impact Factor = 2.8) Q2
3. Kaorop W, Maneechote C, Pratchayasakul W, Kumfu S, Arunsak B, Kongkaew A, Chattipakorn SC, **Chattipakorn N**. Spermidine exerts cardiometabolic protection in estrogen-deprived rats via mitigating cardiac mitochondrial dysfunction and apoptosis. *Toxicol Appl Pharmacol* 2025;501:117399. Impact Factor = 3.3) Q2
4. Chunchai T, Pintana H, Kunasol C, Pantiya P, Arunsak B, Kerdphoo S, Nawara W, Donchada S, 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* 2025;241:e70060. (Impact Factor = 6.3) Q1
5. Piriyakhuntorn P, Tantiworawit A, Mattabhorn P, Kaewchur T, Niprapan P, Srivichit B, Apaijai N, Shinlapawittayatorn K, **Chattipakorn N**, Chattipakorn SC. Melatonin supplementation alleviates bone mineral density decline and circulating oxidative stress in iron-overloaded Thalassemia patients. *J Pineal Res* 2025;77:e70055. (Impact Factor = 8.3) Q1
6. Maneechote C, Khuanjing T, Ongnok B, Arinno A, Prathumsap, Chunchai T, Arunsak B, Nawara W, Chattipakron 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;999:177685. (Impact Factor = 4.2) Q1
7. 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;265:e250023. (Impact Factor = 3.4) Q1
8. Chotinaruemol K, Leurcharusmee P, Chattipakorn SC, **Chattipakorn N**, Apaijai N. Dexmedetomidine mitigates renal ischaemia-reperfusion injury: comprehensive insights from cellular mechanisms to clinical application. *Br J Anaesth* 2025;134:1350-1372. (Impact Factor = 9.1) Q1
9. Thonusin C, Suparan K, Kunasol C, Lungruammit N, Nawara W, Arunsak B, Kerdphoo S, Kongkaew A, Songtrai S, Pintana H, Maneechote C, Pratchayasakul W, Kaewsuwan S, **Chattipakorn N**, Chattipakorn SC. Interruptins extracted from cyclosorus terminans

protect gut pathologies induced by high-fat diet in rats. *Nutrients* 2025;17:1387. (Impact Factor = 4.8) Q1

10. 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;769:110427. (Impact Factor = 3.8) Q1
11. Jinarat D, Shinlapawittayatorn K, Chattipakorn SC, **Chattipakorn N**. Particulate matter and cardiac arrhythmias: from clinical observation to mechanistic insights at cardiac ion channels. *Environ Pollut* 2025;373:126168. (Impact Factor = 7.6) Q1
12. Apaijai N, Attchaipanich T, Maneechote C, Pintana N, 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;1871:167809. (Impact Factor = 4.2) Q1
13. Huang Y, Thonusin C, Tokuda M, **Chattipakorn N**, Chattipakorn SC. The beneficial effects of D-allose and D-allulose on the brain under ischemic stroke and obese-insulin resistant conditions: evidence from in vitro to clinical studies. *Metab Brain Dis* 2025;40:162. (Impact Factor = 3.2) Q2
14. Chaiwong W, Liwsrisakun C, Inchai J, Duangjit P, Bumroongkit C, Deesomchok A, Theerakittikul T, Limsukon A, Tajarernmuang P, Niyatiwatchanchai N, Trongtrakul K, Chitchun C, **Chattipakorn N**, Chattipakorn SC, Apaijai N, Pothirat C. Biomarkers of oxidative stress, systemic inflammation and thrombosis in adult asthmatic patients treated with inhaled corticosteroids during exposure to fine particulate matter. *J Clin Med* 2025;14:2360. (Impact Factor = 3.0) Q1
15. Sripusanapana A, Piriyakulthorna C, Apaijai N, Chattipakorn SC, **Chattipakorn N**. Ivabradine ameliorates doxorubicin-induced cardiotoxicity through improving mitochondrial function and cardiac calcium homeostasis. *Biochem Pharmocol* 2025;236:116881. (Impact Factor = 5.3) Q1
16. Luo D, Kumfu S, **Chattipakorn N**, Chattipakorn SC. Targeting fibroblast growth factor receptor (FGFR) with inhibitors in head and neck cancers: their roles, mechanisms and challenges. *Biochem Pharmacol* 2025;235:116845. (Impact Factor = 5.3) Q1
17. Attachaipanich T, Sriwichaiin S, Apaijai N, Thanyaratsarun T, Thongmung N, Vathesatogkit P, Sritara P, **Chattipakorn N,** Kitiyakara C, Chattipakorn SC. Obesity classified by anthropometric parameters was associated with mitochondrial bioenergetics impairment of peripheral blood mononuclear cells in the elderly opulation running head: obesity and mitochondrial impairment. *Exp Gerontol* 2025;202:112724. (Impact Factor = 3.3) Q1
18. Tuscharoenporn T, Apaijai N, Charoenkwan K, **Chattipakorn N**, Chattipakorn SC. Emerging roles of exosomes in diagnosis, prognosis, and therapeutic potential in ovarian

cancer: a comprehensive review. *Cancer Gene Ther* 2025;32(2):149-164. (Impact Factor = 4.8) Q1

19. Kumfu S, Sripetchwandee J, Thonusin C, Maneechote C, Arunsak B, Chunchai T, Kongkaew A, Chattipakorn SC, **Chattipakorn N**. Mitochondrial dynamic modulators attenuate iron overload-mediated cardiac toxicity via decreased mitochondrial fission, mitophagy/autophagy, and apoptosis in iron-overloaded rats. *Arch Biochem Biophys* 2025;767:110354. (Impact Factor = 3.8) Q1
20. Sripetchwandee J, Kongkaew A, Kumfu S, **Chattipakorn N,** Chattipakorn SC. Modulating mitochondrial dynamics preserves cognitive performance via ameliorating iron-mediated brain toxicity in iron-overload rats. *Eur J Pharmacol* 2025;993:177379. (Impact Factor = 4.2) Q1
21. Piamsiri C, Maneechote C, Chattipakorn SC, **Chattipakorn N**. Therapeutic potential of gasdermin d-mediated myocardial pyroptosis in ischemic heart disease: expanding the paradigm from bench to clinical insights. *J Cell Mol Med* 2025;29:e70357. (Impact Factor = 4.3) Q2
22. Huang H, Apaijai N, Thonusin C, Suntornsaratoon P, **Chattipakorn N**, Charoenphandhu N, Chattipakorn SC. Mothers with obesity and gestational diabetes did not induce brain pathologies or premature brain aging in their adolescent and early adult offspring in rats. *Neuroscience* 568:454-464. (Impact Factor = 2.9) Q2
23. Pota P, Suwannasoma P, Chattipakorn SC, **Chattipakorn N**. From smog to scarred hearts: unmasking the detrimental impact of air pollution on myocardial ischemia-reperfusion injury. *Cell Mol Life Sci* 2025;82:65. (Impact Factor = 6.2) Q1
24. Smithiseth K, Leurcharusmee P, Sawaddiruk P, **Chattipakorn N**, Chattipakorn SC. Unraveling the link between magnesium and diabetic neuropathy: evidence from in vitro to clinical studies. *Nutr Res* 2025;135:13-31. (Impact Factor = 3.4) Q2
25. Boonchooduang N, Louthrenoo O, Likhitweerawong N, Kunasol C, Thonusin C, Sriwichaiin S, Nawara W, **Chattipakorn N**, Chattipakorn SC. Impact of psychostimulants on microbiota and short-chain fatty acids alterations in children with attention-deficit/hyperactivity disorder. *Sci Rep* 2025;15:3034. (Impact Factor = 3.8) Q1
26. Kusirisin P, Apaijai N, Noppakun K, Kuanprasert S, Chattipakorn SC, **Chattipakorn N**. Protective effects of melatonin on kidney function against contrast media-induced kidney damage in patients with chronic kidney disease: A prospective, randomized, double-blinded, placebo-controlled trial. *J Pineal Res* 2025;77:e70031. (Impact Factor = 8.3) Q1
27. Klinhom S, Kunasol C, Sriwichaiin S, Kerdphoo S, **Chattipakorn N**, Chattipakorn SC, Thitaram C. Characteristics of gut microbiota profiles in asian elephants (Elephas maximus) with gastrointestinal disorders. *Sci Rep* 2025;15:1327. (Impact Factor = 3.8) Q1
28. Leddy E, Attachaipanich T, **Chattipakorn N**, Chattipakorn SC. Investigating the effect of metformin on chemobrain: reports from cells to bedside. *Exp Neurol* 2025;385:115129. (Impact Factor = 4.6) Q1

29. Sivasinprasasn S, Chattipakorn K, Pratchayasakul W, Chattipakorn SC, **Chattipakorn N**. N-acetylcysteine enhances low-dose estrogen efficacy against ischemia-reperfusion injury in estrogen-deprived obese insulin-resistant rats. *Menopause* 2025;32(1):81-90. (Impact Factor = 2.8) Q1
30. Tangon N, Kumfu S, **Chattipakorn N**, Chattipakorn SC. Links between oropharyngeal microbiota and IgA nephropathy: a paradigm shift from isolated microbe to microbiome. *Microbiol Res* 2025;292:128005. (Impact Factor = 6.1) Q1
31. Kunasol C, **Chattipakorn N**, Chattipakorn SC. Impact of calcineurin inhibitors on gut microbiota: focus on tacrolimus with evidence from in vivo and clinical studies. *Eur J Pharmacol* 2025;987:177176. (Impact Factor = 4.2) Q1
32. Yuwattana R, Suparan K, Kerdpoo S, Arunsak B, Sanguansermsri C, Katanyuwong K, **Chattipakorn N**, Wiwattanadittakul N, Chattipakorn SC. Altered gut microbiome profiles in epileptic children are associated with spectrum of anti-seizure medication responsiveness. *Brain Res* 2025;1849:149367. (Impact Factor = 2.7) Q2
33. Lungruammit N, Pintana H, Pratchayasakul W, Songtrai S, Kaewsuwan S, Ittichaichareon J, **Chattipakorn N**, Chattipakorn SC. Cyclosorus terminans extract mitigates submandibular gland changes associated with high-fat diet consumption in male rats. *Arch Oral Biol* 2025;170:106127. (Impact Factor = 2.2) Q2
34. Punnachet T, Chattipakorn SC, **Chattipakorn N**, Kumfu S. Critical role of extracellular vesicles in diffuse large B-Cell lymphoma; pathogenesis, potential biomarkers, and targeted therapy. *Biomedicines* 2024;12:2822. (Impact Factor 3.9) Q1
35. Nantsupawat T, Apaijai N, Prommintikul A, Prasertwitayakij N, Chattipakorn SC, **Chattipakorn N**, Wongcharoen W. Effects of sodium-glucose cotransporter-2 inhibitor on atrial high-rate episodes in patients with cardiovascular implantable electronic device: a randomized controlled trial. *Sci Rep* 2024;14(1):27649. (Impact Factor = 3.8) Q1
36. Ongnok B, Prathumsap N, Chunchai T, Pantiya P, Arunsak B, **Chattipakorn N**, 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
37. Nantsupawat T, Gumrai P, Apaijai N, Prommintikul A, Prasertwitayakij N, **C**hattipakorn SC, **Chattipakorn N**, Wongcharoen W. Atrial pacing improves mitochondrial function in peripheral blood mononuclear cells in patients with cardiac implantable electronic devices. *Am J Physiol Heart Circ Physio* 2024;327(5):H1146-H1152. (Impact Factor = 4.1) Q1
38. Suparan K, Trirattanapa K, Piriyakhuntorn P, Sriwichaiin S, Thonusin C, Nawara W, Kerdpoo S, **Chattipakorn N**, Tantiworawit A, Chattipakorn SC. Exploring alterations of gut/blood microbes in addressing iron overload-induced gut dysbiosis and cognitive impairment in thalassemia patients. *Sci Rep* 2024;14(1):24951. (Impact Factor = 3.8) Q1
39. Piamsiri C, Fefelova N, Pamarthi SH, Gwathmey JK, Chattipakorn SC, **Chattipakorn N**, Xie LH. Potential roles of IP_3 receptors and calcium in programmed cell death and

implications in cardiovascular diseases. *Biomolecules* 2024;14(10):1334. (Impact Factor = 4.8) Q1

40. Oo TT, Sumneang N, Chunchai T, Apaijai N, Pratchayasakul W, Liang G, **Chattipakorn N,** Chattipakorn SC. Blocking brain myeloid differentiation factor 2-toll-like receptor 4 signaling improves cognition by diminishing brain pathologies and preserving adult hippocampal neurogenesis in obese rats. *J Neuroimmune Pharmacol* 2024;19(1):51. (Impact Factor = 5.2) Q1
41. Puttawong D, Wejaphikul K, Thonusin C, Dejkhamron P, **Chattipakorn N**, Chattipakorn SC. Potential role of sleep disturbance in the development of early puberty: past clinical evidence for future management. *Pediatr Neurol* 2024;161:117-124. (Impact Factor = 3.2) Q1
42. Pintana H, Apaijai N, Chunchai T, Thonusin C, Saengmearnuparp T, Kongkaew A, **Chattipakorn N**, Chattipakorn SC. The comparative effects between long-term and short-term treatment of finasteride on anxiety-like and depression-like behavior in early senescent male rats. *J Neurosci res* 2024;102(10):e25389. (Impact Factor = 2.9) Q2
43. Charoenvicha C, Thongsroy J, Apaijai N, Attachaipanich T, Sirimaharaj W, Khwanngern1 K, **Chattipakorn N**, Mutirangura A, Chattipakorn SC. Alterations of senescence-associated markers in patients with non-syndromic cleft lip and palate. *Sci Rep* 2024;14:22555. (Impact Factor = 3.8) Q1
44. Apaijai N, Pintana H, Saengmearnuparpa T, Kongkaewe A, Arunsak B, Chunchai T, Chattipakorn SC, **Chattipakorn N**. Inhibition of 5-alpha reductase attenuates cardiac oxidative damage in obese and aging male rats via the enhancement of antioxidants and the p53 protein suppression. *Chem Biol Interact* 2024;403:111240. (Impact Factor = 4.7) Q1
45. Srivichit B, Thonusin C, Aeimlapa R, Arinno A, Chunchai T, Charoenphandhu N, **Chattipakorn N**, Chattipakorn SC. Melatonin and metformin mitigate doxorubicin-induced alveolar bone toxicity. *J Dent Res* 2024;103(9):916-925. (Impact Factor = 7.6) Q1
46. Huang H, Apaijai1 N, Oo TT, Suntornsaratoon P, Charoenphandhu N, **Chattipakorn N**, Chattipakorn SC. Gestational diabetes mellitus, not obesity, triggers postpartum brain inflammation and premature aging in sprague-dawley rats. *Neuroscience* 2024;559:166-180. (Impact Factor = 2.9) Q2
47. Leemasawat K, Osataphan N, Apaijai N, Yanpiset P, Phrommintikul A, Somwangprasert A, Chattipakorn SC, **Chattipakorn N**. Changes in mitochondrial function and cell death patterns in peripheral blood mononuclear cells during trastuzumab treatment following doxorubicin chemotherapy. *Biomedicines* 2024;12(9):1970. (Impact Factor = 3.9) Q1
48. 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) Q2
49. Narongkiatikhun P, Thonusin C, Sriwichaiin S, Nawara W, Fanhchaksai K, Wongsarikan N, Kumfu S, **Chattipakorn N**, Chattipakorn SC. Alterations of plasma metabolomes and

their correlations with immunogenicity in maintenance hemodialysis patients receiving different COVID-19 vaccine regimens. *Physiol Rep* 2024;12:e70005. (Impact Factor = 2.2) Q2

50. Saengmearnuparp T, Pintana H, Apaijai N, Chunchai T, Thonusin C, Kongkaew A, Lojanapiwat B, **Chattipakorn N**, Chattipakorn SC. Long-term treatment with a 5-Alpha-reductase inhibitor alleviates depression-like behavior in obese male rats. *Behav Brain Res* 2024;115155. (Impact Factor = 2.6) Q2
51. Laohavisudhi K, Sriwichaiin S, Attachaipanich T, Wittayachamnankul B, **Chattipakorn N**, Chattipakorn SC. Mechanistic insights into lipocalin-2 in ischemic stroke and hemorrhagic brain injury: integrating animal and clinical studies. *Exp Neuro* 2024;379:114885. (Impact Factor = 4.6) Q1
52. Attachaipanich T, Chattipakorn SC, **Chattipakorn N**. Cardiovascular toxicities by calcineurin inhibitors: cellular mechanisms behind clinical manifestations. *Acta Physiol* 2024;240:e14199. (Impact Factor = 6.3) Q1
53. Jinawong K, Piamsiri C, Apaijai N, Maneechote C, Arunsak B, Nawara W, Thonusin C, Pintana H, **Chattipakorn N**, Chattipakorn SC. Modulating mitochondrial dynamics mitigates cognitive impairment in rats with myocardial infarction. *Curr Neuropharmacol* 2024;22(10):1749-1760. (Impact Factor = 5.3) Q1
54. Oo TT, Pratchayasakul W, Chattipakorn K, Siri-Angkul N, Choovuthayakorn J, Charumporn T, Ongnok B, Arunsak B, Chunchai T, Kongkaew A, Songtrai S, Kaewsuwan S, **Chattipakorn N**, Chattipakorn SC. *Cyclosorus Terminans* extract alleviates neuroinflammation in insulin resistant rats. *Mol Neurobiol* 2024 Jul;61(7):4879-4890. (Impact Factor = 5.1) Q1
55. Piamsiri C, Maneechoate M, Jinawong K, Arunsak B, Chunchai T, Nawara W, Kerdphoo S, Chattipakorn SC, **Chattipakorn N**. Chronic mitochondrial dynamic-targeted therapy alleviates left ventricular dysfunction by reducing multiple programmed cell death in post-myocardial infarction rats. *Eur J Pharmacol* 2024;977:176736. (Impact Factor = 4.4) Q1
56. Attachaipanich T, Sriwichaiin S, Apaijai N, Kerdphoo S, Thongmung N, Vathesatogkit P, Sritara P, **Chattipakorn N**, Kitiyakara C, Chattipakorn SC. An increase in vascular stiffness is positively associated with mitochondrial bioenergetics impairment of peripheral blood mononuclear cells in the older adults. *J Gerontol* 2024;79(7):glae095. (Impact Factor = 5.1) Q1
57. Chalidapong P, Vaseenon T, **Chattipakorn N**, Chattipakorn SC. Potential roles of inflammation on post-traumatic osteoarthritis of the ankle. *Int J Mol Sci* 2024;25:5903. (Impact Factor = 5.6) Q1
58. Thiankhaw K, **Chattipakorn N**, Chattipakorn SC. How calcineurin inhibitors affect cognition. *Acta Physiol* 2024;00:e14161. (Impact Factor = 6.3) Q1
59. Teekaput C, Thiankhaw K, **Chattipakorn N**, Chattipakorn SC. Possible roles of extracellular vesicles in the pathogenesis and interventions of immune-mediated central demyelinating diseases. *Exp Neurobiol* 2024;33(2):47-67. (Impact Factor = 2.4) Q2

60. Suparan K, Sriwichaiin S, Thonusin C, Sripetchwandee J, Khuanjing T, Meneechote 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
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