

## Curriculum Vitae

### NIPON CHATTIPAKORN, M.D., Ph.D.

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**Current Position:** *Distinguished Professor* of Cardiac Electrophysiology  
*Director*, Cardiac Electrophysiology Research and Training Center,  
Faculty of Medicine, Chiang Mai University  
*Chair*, Department of Physiology, Faculty of Medicine,  
Chiang Mai University  
*Visiting Profesor*, School of Pharmaceutical Sciences,  
Wenzhou Medical University, Wenzhou, China  
*Visiting Profesor*, School of Medicine,  
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	<i>Visiting Professor,</i> School of Medicine, Kumamoto University, Kumamoto, Japan
2014-Present	<i>Visiting Professor,</i> School of Pharmaceutical Sciences, Wenzhou Medical University, Wenzhou, China
2019-2020	<i>Distinguished Professor (Level 2, Year 2)</i> (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับสูง ชั้นที่ 2 ปีที่ 2-แต่งตั้งภายในคณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2018-2019	<i>Distinguished Professor (Level 2, Year 1)</i> (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับสูง ชั้นที่ 2 ปีที่ 1-แต่งตั้งภายในคณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2017-2018	<i>Distinguished Professor (Level 1, Year 3)</i> (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับสูง ชั้นที่ 1 ปีที่ 3-แต่งตั้งภายในคณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2016-2017	<i>Distinguished Professor (Level 1, Year 2)</i> (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับสูง ชั้นที่ 1 ปีที่ 2-แต่งตั้งภายในคณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2015-2016	<i>Distinguished Professor (Level 1, Year 1)</i> (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับสูง ชั้นที่ 1 ปีที่ 1-แต่งตั้งภายในคณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2012-Present	<i>Distinguished Professor</i> (ศาสตราจารย์เชี่ยวชาญพิเศษ ระดับ 11), Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2009-2011	<i>Professor</i> (ศาสตราจารย์ ระดับ 10), Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2005-2008	<i>Associate Professor,</i> Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
1993-2004	<i>Instructor,</i> Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2000-2003	<i>Research Assistant Professor,</i> Division of Cardiovascular Disease, Department of Medicine, University of Alabama at Birmingham, Birmingham, AL, USA
1992-1994	<i>Staff Clinician,</i> Maharaj Nakorn-Chiang Mai Hospital, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

## PROFESSIONAL APPOINTMENT

- 2005-Present *Director,*  
Cardiac Electrophysiology Research and Training Center  
(ศูนย์วิจัยและฝึกอบรมสาขาโรคทางไฟฟ้าของหัวใจ),  
Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2013-Present *Department Chair,*  
Department of Physiology, Faculty of Medicine, Chiang Mai University,  
Chiang Mai, Thailand
- 2013-Present *Research Administration and Management Committee,*  
Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2003-2005 *Unit Head,*  
Cardiac Electrophysiology Unit, Department of Physiology,  
Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2005-2009 *Vice-chair,*  
Department of Physiology, Faculty of Medicine, Chiang Mai University,  
Chiang Mai, Thailand

## PATENTS

### USA

- 2001 **Chattipakorn N, KenKnight BH, Ideker RE.** *Method and Apparatus for Rapidly Predicting Outcome of Arrhythmia Therapy.* Patent No. 6,246,908

### Thailand (Filing Date)

- July 6, 2018 **Chattipakorn N, Chattipakorn SC, Chaiyasut C.** *Formula for lactobasillus paracaseii (HII01) powder for instant drink.*
- December 8, 2016 **Chattipakorn N, Chattipakorn SC, Kasinrerker W.** *Immunochromatographic kits for detecting fibroblast growth factor-21 with insulin to detect a condition prior to insulin resistance.*
- July 10, 2015 **Chattipakorn N, Chattipakorn SC.** *Methods to improve mitochondrial function efficacy.*

## PROFESSIONAL LICENSE

1992-Present M.D. (Thailand)

## ORGANIZATIONS AND PARTICIPATION

1993-Present Thai Medical Council  
 1997-Present American Physiological Society  
 1998-Present American Heart Association, Basic Science Council  
 1998-Present Cardiac Electrophysiology Society  
 2001-Present American College of Cardiology  
 2004-Present Thai Physiological Society  
 2004-Present The Medical Association of Thailand  
 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*

## PROFESSIONAL ACTIVITIES

### **Academic Editor**

*MEDICINE* (2018-Present)

### **Editorial Board**

*Asian Biomedicine (Research, Reviews and News)* (2006-Present)

*Heart and Circulation* (2018-Present)

*ISRN Physiology* (2012-Present)

*Journal of Arrhythmia* (2017-Present)

*Journal of Geriatric Cardiology* (2011-Present)

*Journal of Physiological and Biomedical Sciences* (2010-Present)

*Journal of Translational Internal Medicine* (2014-Present)

*Reactive Oxygen Species* (2015-2020)

*World Journal of Cardiology* (2009-Present)

*World Journal of Pharmacology* (05/2017-12/2019)

### **Honorary Editorial Board**

*ChronoPhysiology and Therapy Journal* (2010-2018)

### **Review Editorial Board**

*Frontiers in Physiology - Cardiac Electrophysiology* (2011-Present)

*Frontiers in Pharmacology - Cardiovascular and smooth muscle pharmacology* (2020-Present)

### **Editor-in-Chief**

*Journal of Physiological and Biomedical Sciences (JPBS)* (2008-2010)

*Proceeding to the 1<sup>st</sup> international Neurological and Cardiac Electrophysiology Symposium (NCES) (2004)*

**Guest Editor**

*Oxidative Medicine and Cellular Longevity  
Frontiers in Cell and Developmental Biology  
Frontiers in Physiology*

**Critical reviewer of manuscripts for:**

*American Journal of Physiology: Heart and Circulatory Physiology, Acta Histochemica, Acta Pharmaceutica Sinica B, Acta Pharmacologica Sinica, Acta Physiologica, American Heart Journal, American Journal of Cardiovascular Drugs, American Journal of Hematology, Anadolu Kardiyoloji, Biochimica et Biophysica Acta-Molecular Basis of Disease, Biomedicine and Pharmacotherapy, Bioscience Reports, Blood, Blood Cells, Molecules and Diseases, British Journal of Nutrition, Canadian Journal of Cardiology, Canadian Journal of Physiology and Pharmacology, Cardiovascular Diabetology, Cardiovascular Drug and Therapy, Cardiovascular Research, Cardiovascular Therapeutics, Cellular Physiology and Biochemistry, Circulation, Circulation – Heart Failure, Clinical Autonomic Research, Clinical Science, Critical Reviews in Biochemistry and Molecular Biology, Diabetes and Vascular Disease Research, Diabetologia, EBioMedicine, European Journal of Nutrition, European Journal of Pharmacology, Experimental Biology and Medicine, Experimental Hematology, Experimental Physiology, Expert Opinion on Drug Safety, Expert Opinion on Pharmacotherapy, Expert Review of Clinical Pharmacology, Expert Review of Gastroenterology and Hepatology, Expert Review of Hematology, Food Chemistry, Future Medicinal Chemistry, Heart Rhythm, Hemoglobin, Hypertension, International Journal of Cardiology, International Journal of Experimental Pathology, IEEE Transactions on Medical Imaging, ISRN Physiology, Journal of Advanced Research, Journal of the American College of Cardiology, Journal of the American Heart Association, Journal of Cardiovascular Electrophysiology, Journal of Cardiovascular Medicine, Journal of Cardiovascular Pharmacology and Therapeutics, Journal of Cellular and Molecular Medicine, Journal of Cellular Physiology, Journal of Endocrinology, Journal of Geriatric Cardiology, Journal of Gerontology: Biological Sciences, Journal of Human Genetics, Journal of Interventional Cardiac Electrophysiology, Journal of Medical Association of Thailand, Journal of Molecular Medicine, Journal of Neurochemistry, Journal of Nutritional Science, Journal of Physiology and Biochemistry, Journal of Pineal Research, Journal of Steroid Biochemistry and Molecular Biology, Life Science, Medical Science Monitor, Metabolism, Molecular and Cellular Endocrinology, Molecular Medicine, Molecular Medicine Reports, Nature Communications, Nature Review Endocrinology, Nutrients, Nutrition, Nutrition Metabolism and Cardiovascular Diseases, Nutritional Research, Oncotarget, Oxidative Medicine and Cellular Longevity, Paediatrics and International Child Health, Pediatric Pulmonology Journal, PLOS ONE, Redox Biology, Regulatory Peptides, Science Asia, Scientific Reports, Theranostics, Tohoku Journal of experimental Medicine, Toxicological Sciences, Transaction in Medical Imaging, Translational Research, World Journal of Cardiology*

**EDITORIAL COMMENTS**

1. **Chattipakorn N.** Cardiac ferroptosis: New jigsaw in SCD puzzles. *Blood* 2022;139:811-812. (Impact Factor = 22.113) Q1
2. Phrommintikul P, Chattipakorn SC, **Chattipakorn N.** Exercise and cardioprotection: A “HIP” side of HIPK2 in the heart. *EBioMedicine* 2022;75:103766. (Impact Factor = 8.141) Q1

3. **Chattipakorn N.** Finding serendipity. *Exp Physiol* 2017;102(9):1044-1045. (Impact Factor = 2.912) Q2
4. **Chattipakorn N,** Apaijai N, Chattipakorn SC. Dipeptidyl peptidase-4 inhibitors and the ischemic heart: Additional benefits beyond glycemic control. *Int J Cardiol* 2016;202:415-416. (Impact Factor = 4.036) Q1
5. **Chattipakorn N.** Pre-shock phase singularity and defibrillation outcome: Another piece to solve the jigsaw puzzle? *Heart Rhythm* 2007;4(7):935-937. (Impact Factor = 5.045) Q1
6. **Chattipakorn N,** Ideker RE. The vortex at the left ventricular apex: A new twist to the story of the electrical induction of rotors? *J Cardiovasc Electrophysiol* 2003;14(3):303-305. (Impact Factor 3.475) Q1
7. Ideker RE, **Chattipakorn N,** Gray RA. Defibrillation mechanisms: The parable of the blind men and the elephant? *J Cardiovasc Electrophysiol* 2000;11:1008-1013. (Impact Factor = 3.475) Q1

### PEER REVIEWED ARTICLES

1. Thonusin C, Pantiya P, Sumneang N, Chunchai T, Navara 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;28:31. (Impact Factor = 6.354) Q1
2. Leurcharusmee P, Sawaddiruk P, Punjasawadwong Y, Sugundhavesa N, Klunklin K, Tongprasert S, Silitertpisan P, Jaiwongkam T, Apaijai N, **Chattipakorn N,** Chattipakorn SC. Coenzyme Q10 and ischemic preconditioning potentially prevent tourniquet-induced ischemia/reperfusion in knee arthroplasty. *Antioxidants* 2022;11(2):419. (Impact Factor = 6.312) Q1
3. Sirikul W, Siri-Angkul N, **Chattipakorn N,** Chattipakorn SC. Fibroblast growth factor 23 and osteoporosis: evidence from bench to bedside. *Int J Mol Sci* 2022;23:2500. (Impact Factor = 5.9) Q1
4. Imerb N, Thonusin C, Pratchayasakul W, Arunsak B, Nawara W, Aeimlapa R, Charoenphandhu N, **Chattipakorn N,** Chattipakorn SC. Hyperbaric oxygen therapy improves age induced bone dyshomeostasis in non-obese and obese conditions. *Life Sci* 2022;295:120406. (Impact Factor = 5.037) Q1
5. Oo TT, Sumneang N, Ongnok B, Arunsak B, Chunchai T, Kerdphoo S, Apaijai N, Pratchayasakul W, Liang G, **Chattipakorn N,** Chattipakorn SC. L6H21 protects against cognitive impairment and brain pathologies via toll-like receptor 4-myeloid differentiation factor 2 in prediabetic rats. *Brit J Pharmacol* 2022;179:1220-1236. (Impact Factor = 8.739) Q1
6. Phimphilai M, Pothacharoen P, **Chattipakorn N,** Kongtawelert P. Receptors of advanced glycation end product (rage) suppression associated with a preserved osteogenic differentiation in patients with prediabetes. *Front Endocrinol* 2022;13:799872. (Impact Factor = 5.55) Q1
7. Thiankhaw K, Chattipakorn K, Chattipakorn SC, **Chattipakorn N.** Roles of humanin and derivatives on the pathology of neurodegenerative diseases and cognition. *Biochim Biophys Acta Gen Subj* 2022;1866:130097. (Impact factor = 3.77) Q2

8. Narongkiatikhun P, Chattipakorn SC, **Chattipakorn N**. Mitochondrial dynamics and diabetic kidney disease: missing pieces for the puzzle of therapeutic approaches. *J Cell Mol Med* 2022;26:249-273. (Impact Factor = 5.310) Q2
9. Trongtrakul K, Thonusin C, Pothirat C, Chattipakorn SC, **Chattipakorn N**. Past experiences for future applications of metabolomics in critically ill patients with sepsis and septic shocks. *Metabolites* 2022;12:1. (Impact Factor = 4.932) Q2
10. Maneechote C, Palee S, Kerdphoo S, Jaiwongkam T, Chattipakorn SC, **Chattipakorn N**. Modulating mitochondrial dynamics attenuates cardiac ischemia-reperfusion injury in pre-diabetic rats. *Acta Pharmacol Sin* 2022;43(1):26-38. (Impact Factor = 6.150) Q1
11. Zhang YL, Zhang WX, Yan JQ, Tang YL, Jia WJ, Xu ZW, Xu MJ, **Chattipakorn N**, Wang Y, Feng JP, Liu ZG, Liang G. Chalcone derivatives ameliorate lipopolysaccharide-induced acute lung injury and inflammation by targeting MD2. *Acta Pharmacol Sin* 2022;43(1):76-85. (Impact Factor = 6.150) Q1
12. Winichakoon P, Chaiwarith R, Chattipakorn N, **Chattipakorn SC**. Impact of gut microbiota on kidney transplantation. *Transplant Rev* 2022;36(1):100668. (Impact Factor = 3.943) Q2
13. Patel AMR, Apaijai N, **Chattipakorn N**, Chattipakorn SC. The protective and reparative role of colony stimulating factors in the brain with cerebral ischemia/reperfusion injury. *Neuroendocrinol* 2021;111(11):1029-1065. (Impact Factor = 4.91) Q2
14. Huang L, Thonusin C, **Chattipakorn N**, Chattipakorn SC. Impacts of gut microbiota on gestational diabetes mellitus: a comprehensive review. *Eur J Nutr* 2021;60(5):2343-2360. (Impact Factor = 4.66) Q1
15. 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):2107-2125. (Impact Factor = 7.620) Q1
16. Sriwichaiin S, **Chattipakorn N**, Chattipakorn SC. Metabolomic alterations in blood and brain of dementia and alzheimer's disease: evidence from *in vivo* to clinical studies. *J Alz Dis* 2021;84(1):23-50. (Impact Factor = 4.472) Q2
17. Unchiti K, Leurcharusmee P, Samerchua A, Pipanmekaporn T, **Chattipakorn N**, Chattipakorn SC. The potential role of dexmedetomidine on neuroprotection and its possible mechanisms: evidence from *in vitro* and *in vivo* studies. *Eur J Neurosci* 2021;54:7006-7047. (Impact Factor = 5.614) Q1
18. Nimitrungtawee N, Inmutto N, Chattipakorn SC, **Chattipakorn N**. Extracellular vesicles as a new hope for diagnosis and therapeutic intervention for hepatocellular carcinoma. *Cancer Med* 2021;10:8253-8271. (Impact Factor = 4.452) Q2
19. Pinyopornpanish K, Leerapun A, Pinyopornpanish K, **Chattipakorn N**. Effects of metformin on hepatic steatosis in adult non-alcoholic fatty liver disease with diabetes: insights from cell to patient reports. *Gut Liver* 2021;15(6):827-840. (Impact Factor = 3.141) Q2
20. Sirilert S, Tongsong T, Kumfu S, Chattipakorn SC, **Chattipakorn N**. Effects of intrauterine exposure to hepatitis b virus in fetuses. *J Med Microbiol* 2021;70(11):001455. (Impact Factor = 2.472) Q4

21. Sumneang N, Apaijai N, Oo TT, Singhanat K, Maneechote C, Arunsak B, Nawara W, Pratchayasakul W, Benjanuwattra J, Liang G, Chattipakorn SC, **Chattipakorn N**. Inhibition of myeloid differentiation factor 2 attenuates cardiometabolic impairments via reducing cardiac mitochondrial dysfunction, inflammation, apoptosis and ferroptosis in prediabetic rats. *Biochim Biophys Acta Mol Basis Dis* 2021;1868(2):166301. (Impact Factor = 5.187) Q1
22. Sriwichaiin S, **Chattipakorn N**, Chattipakorn SC. Metabolomic alterations in blood and brain of dementia and alzheimer's disease: evidence from in vivo to clinical studies. *J Alz Dis* 2021;84:23-50. (Impact Factor = 4.472) Q1
23. Liao S, Apaijai N, Luo Y, Wu J, Chunchai T, Singhanat K, Arunsak B, Benjanuwattra J, **Chattipakorn N**, Chattipakorn SC. Cell death inhibitors protect against brain damage caused by cardiac ischemia/reperfusion injury. *Cell Death Discov* 2021;7:312. (Impact Factor = 5.241) Q2
24. Chantakhaw S, Khorana J, Tepmalai K, Boonchooduang N, **Chattipakorn N**, Chattipakorn SC. Alterations of gut microbiota in Hirschsprung disease and Hirschsprung-associated enterocolitis. *Microorganisms* 2021;9:2241. (Impact Factor = 4.128) Q2
25. Thiankhaw K, **Chattipakorn N**, Chattipakorn SC. PM2.5 exposure in association with ad-related neuropathology and cognitive outcomes. *Environ Pollution* 2021;292:118320. (Impact Factor = 8.071) Q1
26. Phrueksotsai S, Pinyopornpanish K, Euathrongchit J, Leerapun A, Phrommintikul A, Buranapin S, **Chattipakorn N**, Thongsawat S. The effects of dapagliflozin on hepatic and visceral fat in type-2 diabetes patients with non-alcoholic fatty liver disease. *J Gastroenterol Hepatol* 2021;36(10):2952-2959. (Impact Factor = 3.437) Q1
27. Yang L, Luo W, Zhang Q, Honga S, Wang Y, Samorodov AV, **Chattipakorn N**, Pavlov VN, Liang G. Cardamonin inhibits LPS-induced inflammatory responses and prevents acute lung injury by targeting myeloid differentiation factor 2. *Phytomedicine* 2021;93:153785. (Impact Factor = 5.340) Q1
28. Srihagulang C, Vongsfak J, Vaniyapong T, **Chattipakorn N**, Chattipakorn SC. Potential roles of vagus nerve stimulation on traumatic brain injury evidence from in vivo and clinical studies. *Exp Neurol* 2022;347:113887. (Impact Factor = 5.33) Q2
29. Wang X, Yang J, Ding B, Chen P, Xu Z, Zhao Y, Chen P, **Chattipakorn N**, Wu D, Liang G, Tang Q. Design, synthesis and bioactivity evaluation of fisetin derivatives as potential anti-inflammatory agents against LPS-induced acute lung injury. *Bioorg Med Chem* 2021;49:116456. (Impact Factor = 3.641) Q2
30. Likhitweerawong N, Thonusin C, Boonchooduang N, Louthrenoo O, Nookaew N, **Chattipakorn N**, Chattipakorn SC. Profiles of urine and blood metabolomics in autism spectrum disorders. *Metab Brain Dis* 2021;36(7):1641-1671. (Impact Factor = 3.58) Q3
31. Nantasupha C, Thonusin C, Charoenkwan K, Chattipakorn SC, **Chattipakorn N**. Metabolic reprogramming in epithelial ovarian cancer. *Am J Transl Res* 2021;13(9):9950-9973. (Impact Factor = 4.06) Q1
32. 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 = 5.898) Q1



33. Kangwan N, Pratchayasakul W, Kongkaew A, Pintha K, **Chattipakorn N**, Chattipakorn SC. Perilla seed oil alleviates gut dysbiosis, intestinal inflammation and metabolic disturbance in obese-insulin-resistant rats. *Nutrients* 2021;13(9):3141. (Impact Factor = 5.717)
34. 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;173:105882. (Impact Factor = 7.658)
35. Thammasit P, Sripetchwandee J, Nosanchuk JD, Chattipakorn SC, **Chattipakorn N**, Youngchim S. Cytokine and chemokine responses in invasive aspergillosis following hematopoietic stem cell transplantation: Past evidence for future therapy of aspergillosis. *J Fungi* 2021;7:753. (Impact Factor = 5.816) Q1
36. Saengmearnuparp T, Lojanapiwat B, **Chattipakorn N**, Chattipakorn SC. Possible links between 5-alpha reductase inhibitors and depression: Evidence from in vivo and clinical studies. *Biomed Pharmacoth* 2021;143:112100. (Impact Factor = 6.52) Q1
37. Ye L, Chen X, Wang M, Jin L, Zhuang Z, Yang D, Guan X, Samorodov AV, Pavlov VN, **Chattipakorn N**, Feng J, Wang Y, Luo W, Liang G. Curcumin analogue C66 attenuates obesity-induced myocardial injury by inhibiting JNK-mediated inflammation. *Biomed Pharmacoth* 2021;143:112121. (Impact Factor = 6.529) Q1
38. Vongsfak J, Pratchayasakul W, Apaijai N, Vanityapong T, **Chattipakorn N**, Chattipakorn SC. The alterations in mitochondrial dynamics following cerebral ischemia/reperfusion injury. *Antioxidants* 2021;10:1384. (Impact Factor = 6.312) Q1
39. Sililas P, Huang L, Thonusin C, Luewan S, **Chattipakorn N**, Chattipakorn SC, Tongsong T. Association between gut microbiota and development of gestational diabetes mellitus. *Microorganisms* 2021;9(8):1686. (Impact Factor = 4.128) Q2
40. Phitthayaphong P, Kumfu S, **Chattipakorn N**, Chattipakorn SC. Blockage of fc gamma receptors alleviates neuronal and microglial toxicity induced by palmitic acid. *J Alz Dis* 2021;82:1315:1332. (Impact Factor = 3.909) Q2
41. Khuankaew C, Sawaddiruk P, **Chattipakorn N**, Chattipakorn SC. Possible roles of mitochondrial dysfunction in neuropathy. *Int J Neurosci* 2021;131(10):1019-1041. (Impact Factor = 1.85) Q4
42. Apaijai N, Jinawong K, Singhanat K, Jaiwongkum T, Kredphoo S, Chattipakorn SC, **Chattipakorn N**. Necrostatin-1 reduces cardiac dysfunction and mitochondrial impairments in prediabetic rats. *J Endocrinol* 2021;251:27-39. (Impact Factor = 4.286) Q1
43. Choksomngam Y, Pattanakuhar S, **Chattipakorn N**, Chattipakorn SC. The metabolic role of spermidine in obesity: Evidence from cells to community. *Obes Res Clin Pract* 2021;15(4):315-326. (Impact Factor = 2.062) Q2
44. Huang L, Thonusin C, **Chattipakorn N**, Chattipakorn SC. Impacts of gut microbiota on gestational diabetes mellitus: a comprehensive review. *Eur J Nutr* 2021;60(5):2343-2360. (Impact Factor = 4.66) Q1
45. Huang S, Luo W, Wu G, Shen Q, Zhuang Z, Yang D, Qian J, Hu X, Cai Y, **Chattipakorn N**, Huang W, Liang G. Inhibition of CDK9 attenuates atherosclerosis by inhibiting inflammation and phenotypic switching of vascular smooth muscle cells. *Aging* 2021;13(11):14892-14909. (Impact factor = 4.831) Q1

46. Jinawong K, Apaijai N, **Chattipakorn N**, Chattipakorn SC. Cognitive impairment in myocardial infarction and heart failure. *Acta Physiol* 2021;232:e13642. (Impact Factor = 5.227) Q1
47. Pongkan W, Jinawong K, Pratchayasakul W, Jaiwongkum T, Kredphoo S, Tokuda M, Chattipakorn SC, **Chattipakorn N**. D-allulose provides cardioprotective effect by attenuating cardiac mitochondrial dysfunction in obese-insulin resistance rats. *Eur J Nutr* 2021;60(4):2047-2061. (Impact factor = 4.664) Q1
48. Bo-Htay C, Shwe T, Jaiwongkum T, Kredphoo S, Pratchayasakul W, Pattarasakulchai T, Shinlapawittayatorn K, Chattipakorn SC, **Chattipakorn N**. Hyperbaric oxygen therapy effectively alleviates d-galactose-induced-age-related cardiac dysfunction via attenuating mitochondrial dysfunction in pre-diabetic rats. *Aging* 2021;13(8):10955-10972. (Impact Factor = 4.831) Q1
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## PEER REVIEWED ABSTRACTS

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Professor Dr. Nipon Chattipakorn received his *M.D.* from the Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, and *Ph.D.* in Physiology and Biophysics from the University of Alabama at Birmingham (UAB), USA, and had his *Postdoctoral Fellow* training in the Division of Cardiovascular Diseases, Department of Medicine, at UAB. He is currently the Director of the Cardiac Electrophysiology Research and Training (CERT) Center, Faculty of Medicine, Chiang Mai University, and also serves as a Professor and a Chair in the Department of Physiology, Faculty of Medicine, Chiang Mai University.

Professor Dr. Nipon Chattipakorn has received many international and national scientific awards including the *ACC/Procter & Gamble Pharmaceuticals Career Development Award* from the American College of Cardiology, *Wyeth-Ayerst Electrophysiology Fellowship Award* from the North American Society of Pacing and Electrophysiology, *Outstanding Visiting Scholar Award* from the University of Alabama at Birmingham, the *Senior Research Scholar Award* from the Thailand Research Fund, and the *Gold Elephant Award for Best Researcher in Medical Science* from the Chiang Mai University. In 2012, he received the highest academic award in Thailand, the *Outstanding Scientist Award*, from the Foundation for Promotion of Science and Technology under the patronage of H.M. the King of Thailand. His research project on cardiac ischemia-reperfusion injury has been awarded as the *TRF Best Research Project of the Year 2012* from the Thailand Research Fund. In 2013, he also received the *Outstanding Academic Professor Award* from the ASAIHL-Thailand, and has been awarded the *Thailand Best Researcher Award in Biomedical Sciences* from the National Research Council of Thailand. In 2014, he received a *NSTDA Research Chair Grant* from the National Science and Technology Development Agency (NSTDA), and has been awarded the *Thailand Best Citizen in Science and Technology* from the office of the Prime Minister of Thailand. In 2017, he received “*The Dushdi Mala Medal in Medicine*” (aka being knighted) from the King of Thailand. He is currently the author of more than 334 peer-reviewed papers listed in PubMed, and 15 international textbooks in cardiovascular medicine. He has served as the editorial board and reviewer board for many international cardiology and physiology journals. He is also the founder of the *Cardiac Electrophysiology Research and Training (CERT) Center* at the Faculty of Medicine, Chiang Mai University.

Professor Dr. Nipon Chattipakorn's research interest is in the field of cardiac electrophysiology and pathophysiology of the heart. He has been studying the electrophysiological changes in the normal, obesity, diabetic as well as thalassemic hearts, during ischemia and reperfusion injury and heart failure, using a wide range of study models ranging from cardiac mitochondria, isolated cardiomyocytes, and small and large (human-like) animal models to the bedside level for these pathophysiological studies.



### ประวัติอย่างสั้น

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บุคคลดีเด่นของชาติ สาขาวิทยาศาสตร์และเทคโนโลยี พ.ศ. 2557  
เหรียญคุณภุชฎามาลา เข้มศิลปวิทยา สาขาแพทยศาสตร์ พ.ศ. 2560  
เมธีวิจัยอาวุโส สกว. (2 สมัย) และ นักวิจัยแกนนำ สวทช. (2 สมัย)  
ผู้ทรงคุณวุฒิสภาวิจัยแห่งชาติสาขาวิทยาศาสตร์การแพทย์

- สำเร็จการศึกษา แพทยศาสตรบัณฑิต จาก คณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่, ปริญญาเอก สาขา Physiology & Biophysics และ Post-doctoral Cardiology Fellow ในสาขา Cardiac Electrophysiology จาก University of Alabama at Birmingham ประเทศสหรัฐอเมริกา และต่อมาได้รับเชิญให้ดำรงตำแหน่ง ผู้ช่วยศาสตราจารย์ ประจำแผนกโรคหัวใจและหลอดเลือด ที่ Department of Medicine, University of Alabama at Birmingham, USA
- ปัจจุบันเป็น ศาสตราจารย์เชี่ยวชาญพิเศษ (ระดับ 11) ภาควิชาสรีรวิทยา คณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่
- เป็นผู้บุกเบิกและก่อตั้ง ศูนย์วิจัยและฝึกอบรมสาขาโรคทางไฟฟ้าของหัวใจ ให้กับคณะแพทยศาสตร์ มหาวิทยาลัย เชียงใหม่
- ปัจจุบันดำรงตำแหน่ง **ผู้อำนวยการศูนย์วิจัยและฝึกอบรมสาขาโรคทางไฟฟ้าของหัวใจ** คณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่ และ หัวหน้าภาควิชาสรีรวิทยา คณะแพทยศาสตร์ มหาวิทยาลัย เชียงใหม่
- ได้รับการแต่งตั้งให้เป็น กรรมการสภาวิจัยแห่งชาติสาขาวิทยาศาสตร์การแพทย์ ในปี 2556 จนถึงปัจจุบัน
- ได้รับรางวัลในระดับนานาชาติจำนวนมากในสาขาโรคทางไฟฟ้าของหัวใจ ตัวอย่างเช่น
  - รางวัล Procter & Gamble Pharmaceuticals Career Development Award จาก American College of Cardiology, USA
  - รางวัล Wyeth-Ayerst Electrophysiology Fellowship Award จาก North American Society of Pacing and Electrophysiology, USA
  - รางวัล Young Investigator Award (2<sup>nd</sup> place) จากทั้ง American College of Cardiology, USA และ จาก North American Society of Pacing and Electrophysiology, USA และ รางวัล *Outstanding Scholar Award* จาก University of Alabama at Birmingham, USA
- เป็นบุคคลแรกที่ได้รับรางวัล “**ช่างทองคำ**” ในปี พ.ศ. 2549 จากมหาวิทยาลัยเชียงใหม่ในฐานะ นักวิจัยดีเด่น สาขาวิทยาศาสตร์สุขภาพ, และ ในปี พ.ศ. 2551 ได้รับ “เหรียญเชิดชูเกียรติศิษย์เก่าแพทย์เชียงใหม่ที่สร้างชื่อเสียงให้กับสถาบัน”
- ได้รับการคัดเลือกจากสำนักงานกองทุนสนับสนุนการวิจัย (สกว.) ให้เป็น “**เมธีวิจัยอาวุโส สกว.**” 2 วาระ คือ ในปี พ.ศ. 2552 และ พ.ศ. 2555
- ได้รับรางวัล “**นักวิทยาศาสตร์ดีเด่น**” ประจำปี พ.ศ. 2555 จากมูลนิธิส่งเสริมวิทยาศาสตร์และเทคโนโลยีในพระบรมราชูปถัมภ์ ซึ่งรางวัลนี้ถือว่าเป็นรางวัลสูงสุดด้านการวิจัยของประเทศไทย
- ได้รับ “**โล่เกียรติยศผลงานวิจัยเด่น สกว. ประจำปี พ.ศ. 2555**” จากสำนักงานกองทุนสนับสนุนการวิจัย (สกว.)

- ได้รับ “รางวัลอาจารย์ดีเด่น ประเภทอาจารย์อาวุโสดีเด่นสาขาวิทยาศาสตร์สุขภาพ” ประจำปี 2556 จากสมาคมสถาบันการศึกษาชั้นอุดมศึกษาแห่งภูมิภาคเอเชียตะวันออกเฉียงใต้ ประจำปีประเทศไทย และ ได้รับพระราชทานรางวัลอาจารย์ดีเด่นแห่งชาติ (ปอมท) สาขาวิทยาศาสตร์สุขภาพ ประจำปี 2563 โดยที่ประชุมอธิการบดีแห่งประเทศไทย
- ได้รับรางวัล “นักวิจัยดีเด่นแห่งชาติ สาขาวิทยาศาสตร์การแพทย์” ประจำปี พ.ศ. 2556 จากสมาคมนักวิจัยแห่งชาติ
- ได้รับรางวัล “นักวิจัยแกนนำ สวทช.” 2 วาระ ประจำปี พ.ศ. 2557 และ พ.ศ. 2562 จากสำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ
- ได้รับรางวัล “บุคคลดีเด่นของชาติ สาขาวิทยาศาสตร์และเทคโนโลยี” ประจำปีพุทธศักราช 2557 จากคณะกรรมการเอกลักษณ์ของชาติ สำนักนายกรัฐมนตรี
- ได้รับพระราชทาน “เหรียญดุษฎีมาลา เข็มศิลปวิทยา สาขาแพทยศาสตร์” ประจำปีพุทธศักราช 2560
- มีผลงานที่ได้รับการจดสิทธิบัตรในสหรัฐอเมริกาและภาคพื้นยุโรป เรื่อง วิธีการและเครื่องมือที่สามารถพยากรณ์ผลลัพธ์ของการรักษาภาวะหัวใจเต้นผิดจังหวะได้อย่างรวดเร็ว
- ได้รับเชิญให้เป็น editorial board ของวารสารระดับนานาชาติทางด้านโรคหัวใจและหลอดเลือด และเป็นวิทยากรรับเชิญจากทั้งในและต่างประเทศ รวมทั้งได้รับเชิญให้เป็นผู้เขียนบทบรรณาธิการรวมทั้งการตรวจและวิจารณ์บทความก่อนที่จะตีพิมพ์ในวารสารชั้นนำทางโรคหัวใจและหลอดเลือด เช่น Circulation, Journal of the American College of Cardiology, Heart Rhythm, Cardiovascular Research และ Journal of Cardiovascular Electrophysiology
- มีผลงานตีพิมพ์งานวิจัยเป็นจำนวนมากทั้งในรูปแบบของ Original article, Editorial Comment และ Peer-Review Abstracts กว่า 330 เรื่อง และเขียน Book chapter ให้แก่ International Textbook ทางโรคหัวใจมาแล้ว 15 เล่ม
- เป็นอาจารย์ที่ปรึกษาให้กับนักวิจัยรุ่นใหม่และรุ่นกลางที่ได้รับรางวัลด้านการวิจัย ทั้งในระดับประเทศ และระดับนานาชาติจำนวนมาก