

CURRICULUM VITAE

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| Education | 2005 | B.Sc. (Medical Technology), Second Class Honor Faculty of Associated Medical Science, Chiang Mai University, Chiang Mai, Thailand |
| | 2008 | M.Sc. (Biochemistry), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand |
| | 2013 | Ph.D. (Physiology), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand |

Honors and awards

- 2020 รางวัล “ช้างทองคำ” นักวิจัยรุ่นใหม่ดีเด่น สาขาวิทยาศาสตร์สุขภาพ ประจำปี 2562, มหาวิทยาลัยเชียงใหม่
- 2019 รางวัลอาจารย์ดีเด่น ระดับบัณฑิตศึกษา (ปริญญาโท) คณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่
- 2019 *TRF-OHEC-Scopus Young Researcher Award for New Scholar, the Thailand Research Fund, Bangkok, Thailand*
- 2018 รางวัลอาจารย์ที่ปรึกษาวิทยานิพนธ์หลักของนักศึกษาระดับปริญญาโท ที่มีผลงานตีพิมพ์ในวารสารวิชาการ ที่มี impact factor มากกว่า 1 ประจำปีการศึกษา 2560
- 2018 รางวัลอาจารย์ที่ปรึกษาวิทยานิพนธ์หลักของนักศึกษาระดับปริญญาโท ที่สำเร็จการศึกษาหลักสูตรวิทยาศาสตรมหาบัณฑิต สาขาชีววิทยา ประจำปีการศึกษา 2560 ตามที่ สกอ. กำหนด
- 2018-2020 *TRF-CHE Research Grant for New Scholar, the Thailand Research Fund, Bangkok, Thailand*
- 2018 *Outstanding poster presentation, The 17th Annual Conference of The Thailand Research Fund (TRF), The Regent Cha Am Beach Resort, Cha-Am, Phetburi, Thailand. 10-12 January, 2018*
- 2017 ผู้แทนประเทศไทยเข้าร่วมการประชุม Global Young Scientists Summit (GYSS2017) ณ สาธารณรัฐสิงคโปร์ (14-21 มกราคม 2560)
- 2017-2019 *Faculty of Medicine Young Researcher Fund, The Faculty of Medicine Endowment Fund, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand*
- 2016-2018 *TRF-CHE Research Grant for New Scholar, the Thailand Research Fund, Bangkok, Thailand*
- 2016 *Outstanding poster presentation, The 15th Annual Conference of The Thailand Research Fund (TRF), The Regent Cha Am Beach Resort, Cha-Am, Phetburi, Thailand. 6-8 January, 2016*

- 2015 *Chiang Mai University Young Researcher Fund*, CMU Junior Research Fellowship Program, Chiang Mai University, Chiang Mai, Thailand
- 2014-2016 *Faculty of Medicine Young Researcher Fund*, The Faculty of Medicine Endowment Fund, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2014-2016 *TRF-CHE Research Grant for New Scholar*, the Thailand Research Fund, Bangkok, Thailand
- 2013 *Excellent PhD Thesis Award*, Health Sciences, Chiang Mai University.
- 2012 *Outstanding TRF Research of the Year 2012*, Thailand Research Fund, Bangkok, Thailand. (PI: Prof. Dr. Nipon Chattipakorn)
- 2012 *Outstanding oral presentation by Ph.D. student*, the Royal Golden Jubilee (RGJ)- Ph.D. Congress XIII, Chonburi, Thailand. 6-8 April 2012.
- 2010 *Outstanding poster presentation by Ph.D. student*, the 39th Annual Scientific Meeting of the Physiology Society of Thailand, Chonburi, Thailand. 2010.
- 2009-2012 *Ph.D. scholarship*, Royal Golden Jubilee Ph.D. program, Thailand Research Fund under the Office of the Prime Minister, the Royal Thai Government, Thailand.
- 2008 *Outstanding oral presentation by M.Sc. student*, the 37th Physiological Society of Thailand's Annual Conference, Garden Sea View Resort, Pattaya, Chonburi, Thailand. 2008.

Professional License

2005-present Medical Technologist (M.T.), Thailand

Research grant support

1. 03/2019-03/2021 Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. "The effects of lipocalin-2 receptor siRNA on intracellular

iron uptake, mitochondrial dynamic and apoptosis in cardiomyocytes under iron overload condition.” (PI)

2. 05/2018-04/2020 TRF-CHE Research Grant for New Scholar, the Thailand Research Fund (MRG6180239), Bangkok, Thailand. “The roles of lipocalin-2 receptor as a portal of iron uptake into cardiomyocytes under iron overload condition.” (PI)
3. 01/2017-01/2019 Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. “Effects of iron chelator deferiprone and T-type calcium channel blocker efonidipine on cardiac apoptosis, cardiac mitochondrial functions, cardiac mitochondrial biogenesis and mitochondrial dynamics in iron overload thalassemic mice.” (PI)
4. 01/2017-01/2019 Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. “The effects of different doses of Humanin on brain mitochondrial function after myocardial ischemia reperfusion injury.” (PI)
5. 05/2016-04/2018 TRF-CHE Research Grant for New Scholar, the Thailand Research Fund (MRG5980222), Bangkok, Thailand. “The effects of combined iron chelator with TTCC blocker or antioxidant therapy on the heart of iron-overloaded thalassemic mice.” (PI)
6. 06/2014-05/2016 TRF-CHE Research Grant for New Scholar, the Thailand Research Fund (TRG5780002), Bangkok, Thailand. “Comparison beneficial effects between iron chelator, TTCC blocker and LTCC blocker on cardiac iron accumulation, cardiac functions and cardiac mitochondrial function in wild type and thalassemic mice under iron overload condition.” (PI)
7. 10/2014-04/2016 Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. “Comparison of therapeutic effects among iron chelator, T-type calcium channel blocker and L-type calcium channel blocker on cardiac iron accumulation and cardiac iron transporters protein expression in wild type and thalassemic mice under iron overload condition” (PI)

8. 01/2015-12/2015 Chiang Mai University Young Researcher Fund, Chiang Mai, Thailand. "Comparison therapeutic effects between iron chelator, TTCC blocker and LTCC blocker on cardiac iron accumulation and cardiac mitochondrial function in wild type and thalassemic mice under iron overload condition" (PI)

Peer-reviewed Articles

1. Sumneang N, Siri-Angkul N, **Kumfu S**, Chattipakorn SC, Chattipakorn N. The effects of iron overload on mitochondrial function, mitochondrial dynamics, and ferroptosis in cardiomyocytes. *Arch Biochem Biophys*. 2019 Dec 28;108241. (IF:3.559; Q1)
2. Sumneang N, **Kumfu S**, Khamseekaew J, Siri-Angkul N, Fucharoen S, Chattipakorn SC, Chattipakorn N. Combined iron chelator with N-acetylcysteine exerts the greatest effect on improving cardiac calcium homeostasis in iron-overloaded thalassemic mice. *Toxicology*. 2019 Nov 1;427:152289. (IF: 3.547; Q1)
3. Phrommintikul A, Wongcharoen W, **Kumfu S**, Jaiwongkam T, Gunaparn S, Chattipakorn SC, Chattipakorn N. Effects of Dapagliflozin vs. Vildagliptin on Cardiometabolic Parameters in Diabetic Patients with Coronary Artery Disease: A Randomised Study. *Br J Clin Pharmacol*. 2019 Jun;85(6):1337-1347. (IF: 3.867; Q1)
4. Kingnate C, Charoenkwan K, **Kumfu S**, Chattipakorn N, Chattipakorn SC. Possible Roles of Mitochondrial Dynamics and the Effects of Pharmacological Interventions in Chemoresistant Ovarian Cancer. *EBioMedicine*. 2018 Aug;34:256-266. (IF: 6.680; Q1)

5. Khamseekaew J, **Kumfu S**, Palee S, Wongjaikam S, Srichairatanakool S, Fucharoen S, Chattipakorn SC, Chattipakorn N. Effects of the iron chelator deferiprone and the T-type calcium channel blocker efonidipine on cardiac function and Ca²⁺ regulation in iron-overloaded thalassemic mice. *Cell Calcium*. 2018 Jun;72:18-25. (IF: 3.932; Q1)
6. Rueangdetnarong H, Sekararithi R, Jaiwongkam T, **Kumfu S**, Chattipakorn N, Tongsong T, Jatavan P. Comparisons of the oxidative stress biomarkers levels in gestational diabetes mellitus (GDM) and non-GDM among Thai population: cohort study. *Endocr Connect*. 2018 May;7(5):681-687. (IF: 2.474; Q2)
7. Chinthakanan S, Laosuwan K, Boonyawong P, **Kumfu S**, Chattipakorn N, Chattipakorn SC. Reduced heart rate variability and increased saliva cortisol in patients with TMD. *Arch Oral Biol*. 2018 Jun;90:125-129. (IF: 1.663; Q2)
8. **Kumfu S**, Charununtakorn ST, Jaiwongkam T, Chattipakorn N, Chattipakorn SC. Humanin Exerts Neuroprotection During Cardiac Ischemia-Reperfusion Injury. *J Alzheimers Dis*. 2018;61(4):1343-1353. (IF: 3.517; Q1)
9. **Kumfu S**, Khamseekaew J, Palee S, Srichairatanakool S, Fucharoen S, Chattipakorn SC, Chattipakorn N. Combined iron chelator and T-type calcium channel blocker exerts greater efficacy on cardioprotection than monotherapy in iron-overload thalassemic mice. *Eur J Pharmacol*. 2018 Mar 5;822:43-50. (IF: 3.170; Q1)
10. Sungkarat S, Boripuntakul S, **Kumfu S**, Lord SR, Chattipakorn N. Tai Chi Improves Cognition and Plasma BDNF in Older Adults With Mild Cognitive Impairment: A Randomized Controlled Trial. *Neurorehabil Neural Repair*. 2018 Feb;32(2):142-149. (IF: 3.757; Q1)
11. Minta W, Palee S, Mantor D, Sutham W, Jaiwongkam T, Kerdphoo S, Pratchayasakul W, **Kumfu S**, Chattipakorn SC, Chattipakorn N. Estrogen

deprivation aggravates cardiometabolic dysfunction in obese-insulin resistant rats through the impairment of cardiac mitochondrial dynamics. *Exp Gerontol.* 2018 Mar;103:107-114. (IF: 3.080; Q2)

12. **Kumfu S**, Khamseekaew J, Palee S, Srichairatanakool S, Fucharoen S, Chattipakorn SC, Chattipakorn N. A combination of an iron chelator with an antioxidant exerts greater efficacy on cardioprotection than monotherapy in iron-overload thalassemic mice. *Free Radic Res.* 2018 Jan;52(1):70-79. (IF: 2.825; Q2)
13. **Kumfu S**, Chattipakorn SC, Chattipakorn N. T-type and L-type Calcium Channel Blockers for the Treatment of Cardiac Iron Overload: An Update. *J Cardiovasc Pharmacol.* 2017 Nov;70(5):277-283. (IF: 2.371; Q2)
14. **Kumfu S**, Fucharoen S, Chattipakorn SC, Chattipakorn N. Cardiac complications in beta-thalassemia: From mice to men. *Exp Biol Med (Maywood).* 2017 Jun;242(11):1126-1135. (IF: 3.005; Q1)
15. Wongjaikam S, **Kumfu S**, Khamseekaew J, Chattipakorn SC, Chattipakorn N. Restoring the impaired cardiac calcium homeostasis and cardiac function in iron overload rats by the combined deferiprone and N-acetyl cysteine. *Sci Rep.* 2017 Mar 13;7:44460. (IF: 4.011; Q1)
16. Khamseekaew J, **Kumfu S**, Wongjaikam S, Kerdphoo S, Jaiwongkam T, Srichairatanakool S, Fucharoen S, Chattipakorn SC, Chattipakorn N. Effects of iron overload, an iron chelator and a T-Type calcium channel blocker on cardiac mitochondrial biogenesis and mitochondrial dynamics in thalassemic mice. *Eur J Pharmacol.* 2017 Mar 15;799:118-127. (IF: 3.170; Q1)
17. Wongjaikam S, **Kumfu S**, Khamseekaew J, Sripetchwandee J, Srichairatanakool S, Fucharoen S, Chattipakorn SC, Chattipakorn N. Combined

Iron Chelator and Antioxidant Exerted Greater Efficacy on Cardioprotection Than Monotherapy in Iron- Overloaded Rats. *PLoS One*. 2016 Jul 18;11(7):e0159414. (IF: 2.776; Q1)

18. Chunchai T, Samniang B, Sripetchwandee J, Pintana H, Pongkan W, **Kumfu S**, Shinlapawittayatorn K, KenKnight BH, Chattipakorn N, Chattipakorn SC. Vagus Nerve Stimulation Exerts the Neuroprotective Effects in Obese-Insulin Resistant Rats, Leading to the Improvement of Cognitive Function. *Sci Rep*. 2016 May 26;6:26866. (IF: 4.011; Q1)
19. **Kumfu S**, Charunnuntakorn ST, Jaiwongkam T, Chattipakorn N, Chattipakorn SC. Humanin prevents brain mitochondrial dysfunction in a cardiac I/R injury model. *Exp Physiol*. 2016 Jun 1;101(6):697-707. (IF: 2.624; Q2)
20. **Kumfu S**, Chattipakorn SC, Fucharoen S, Chattipakorn N. Effects of iron overload condition on liver toxicity and hepcidin/ferroportin expression in thalassemic mice. *Life Sciences* 2016;150:15-23. (IF: 3.448; Q1)
21. Khamseekaew J, **Kumfu S**, Chattipakorn SC, Chattipakorn N. Effects of Iron Overload on Cardiac Calcium Regulation: Translational Insights Into Mechanisms and Management of a Global Epidemic. *Can J Cardiol*. 2016:1-8 (IF: 5.592; Q1)
22. Samniang B, Shinlapawittayatorn K, Chunchai T, Pongkan W, **Kumfu S**, Chattipakorn SC, KenKnight BH, Chattipakorn N. Vagus Nerve Stimulation Improves Cardiac Function by Preventing Mitochondrial Dysfunction in Obese-Insulin Resistant Rats. *Sci Rep*. 2016 Feb 1;6:19749. (IF: 4.011; Q1)
23. **Kumfu S**, Chattipakorn SC, Fucharoen S, Chattipakorn N. Dual T-type and L-type calcium channel blocker exerts beneficial effects in attenuating

- cardiovascular dysfunction in iron-overload thalassemic mice. *Exp Physiol*. 2016 Apr;101(4):521-39. (IF: 2.624; Q2)
24. Sangaralingham SJ, Wang BH, Huang L, **Kumfu S**, Ichiki T, Krum H, Burnett JC Jr. Cardiorenal fibrosis and dysfunction in aging: Imbalance in mediators and regulators of collagen. *Peptides*. 2016 Feb;76:108-14. (IF: 2.659; Q2)
25. Wongjaikam S, **Kumfu S**, Chattipakorn SC, Fucharoen S, Chattipakorn N. Current and future treatment strategies for iron overload cardiomyopathy. *Eur J Pharmacol*. 2015 Oct 15;765:86-93. (IF: 3.170; Q1)
26. Pratchayasakul W, Sa-Nguanmoo P, Sivasinprasasn S, Pintana H, Tawinvisan R, Sripetchwandee J, **Kumfu S**, Chattipakorn N, Chattipakorn SC. Obesity accelerates cognitive decline by aggravating mitochondrial dysfunction, insulin resistance and synaptic dysfunction under estrogen-deprived conditions. *Horm Behav*. 2015 May 16;72:68-77. (IF: 3.949; Q1)
27. Inthachai T, Lekawanvijit S, **Kumfu S**, Apaijai N, Pongkan W, Chattipakorn SC, Chattipakorn N. Dipeptidyl peptidase-4 inhibitor improves cardiac function by attenuating adverse cardiac remodelling in rats with chronic myocardial infarction. *Exp Physiol*. 2015 Jun 1;100(6):667-79. (IF: 2.624; Q2)
28. Sivasinprasasn S, Sa-Nguanmoo P, Pratchayasakul W, **Kumfu S**, Chattipakorn SC, Chattipakorn N. Obese- insulin resistance accelerates and aggravates cardiometabolic disorders and cardiac mitochondrial dysfunction in estrogen-deprived female rats. *Age (Dordr)*. 2015 Apr;37(2):28. (IF: 4.648; Q1)
29. Wijarnpreecha K, **Kumfu S**, Chattipakorn SC, Chattipakorn N. Cardiomyopathy Associated with Iron Overload: How Does Iron Enter Myocytes and What are the Implications for Pharmacological Therapy?. *Hemoglobin*. 2015;39(1):9-17. (IF: 0.598; Q3)

30. Shinlapawittayatorn K, Chinda K, Palee S, Surinkaew S, **Kumfu S**, Kumphune S, Chattipakorn S, KenKnight BH, Chattipakorn N. Vagus Nerve Stimulation Initiated Late During Ischemia, but not Reperfusion, Exerts Cardioprotection via Amelioration of Cardiac Mitochondrial Dysfunction. *Heart Rhythm*. 2014; Dec;11(12):2278-87. (IF: 5.225; Q1)
31. Semaming Y, **Kumfu S**, Pannangpetch P, Chattipakorn S, Chattipakorn N. Protocatechuic acid exerts cardioprotective effect in type-1 diabetic rats. *J Endocrinol*. 2014; Oct;223(1):13-23. (IF: 4.381; Q1)
32. Lekawanvijit S, **Kumfu S**, Wang BH, Manabe M, Nishijima F, Kelly DJ, Krum H, Kompa AR. The Uremic Toxin Adsorbent AST-120 Abrogates Cardiorenal Injury Following Myocardial Infarction. *PLoS One* 2013; Dec 13;8(12):e83687. (IF: 2.776; Q1)
33. Liu S, Kompa AR, **Kumfu S**, Nishijima F, Kelly DJ, Krum H, Wang BH. Subtotal nephrectomy accelerates pathological cardiac remodeling post-myocardial infarction: Implications for cardiorenal syndrome. *International Journal of Cardiology* 2013; Oct 3;168(3):1866-80. (IF: 3.471; Q2)
34. **Kumfu S**, Chattipakorn S, Fucharoen S, Chattipakorn N. Ferric iron uptake into cardiomyocytes of β -thalassemic mice is not through calcium channels. *Drug and Chemical Toxicology* 2013; 36(3): 329-34. (IF: 1.946; Q2)
35. **Kumfu S**, Chattipakorn S, Fucharoen S, Chattipakorn N. Mitochondrial calcium uniporter blocker prevents cardiac mitochondrial dysfunction induced by iron overload in thalassemic mice. *Biometals* 2012; 25(6):1167-75. (IF: 2.455; Q1)
36. **Kumfu S**, Chattipakorn S, Chinda K, Fucharoen S, Chattipakorn N. T-type calcium channel blockade improves survival and cardiovascular function in

- thalassemic mice. *European Journal of Haematology* 2012; 88(6): 535-48. (IF: 2.217; Q1)
37. Chattipakorn N, **Kumfu S**, Fucharoen S, Chattipakorn S. Calcium channels and iron uptake into the heart. *World Journal of Cardiology* 2011; 3(7): 215-218.
38. Thummasorn S, **Kumfu S**, Chattipakorn S, Chattipakorn N. Granulocyte-colony stimulating factor attenuates mitochondrial dysfunction induced by oxidative stress in cardiac mitochondria. *Mitochondrion*. 2011;11(3):457-66. (IF: 3.449; Q1)
39. **Kumfu S**, Chattipakorn S, Srichairatanakool S, Settakorn J, Fucharoen S, Chattipakorn N. T-type calcium channel as a portal of iron uptake into cardiomyocytes of beta-thalassemic mice. *European Journal of Haematology* 2011; 86 :156-166. (IF: 2.217; Q1)

Peer-reviewed Abstract

1. Natticha Samneang, **Sirinart Kumfu**, Juthamas Khamseekaew, Suthat Fucharoen, Siriporn C Chattipakorn, and Nipon Chattipakorn. Combined Iron Chelator With N-Acetylcysteine Exerts Greater Efficacy Than Single Regimen on Improving Cardiac Function via Restoring Cardiac Calcium Homeostasis in Iron-Overloaded Thalassemic Mice. *Circulation*. 2018;138:A11386
2. **Sirinart Kumfu**, PhD, Savitree Thummasorn, MSc, Thidarat Jaiwongkam, BSc, Nipon Chattipakorn, MD, PhD, Siriporn C. Chattipakorn, DDS, PhD. Humanin prevents brain mitochondrial dysfunction, Alzheimer's pathology and apoptosis caused by cardiac ischemia-reperfusion injury in rats. *Alzheimer's & Dementia: Journal of the Alzheimer's Association*. July 2017; 13(7), P675.
3. Nithita Nanthatanti, Adisak Tantiworawit, Nawapong Patpan, Thanawat Rattanathamthee, Sasinee Hantrakool, Chatree Chai-Adisaksopha, Ekarat Rattarittamrong, Lalita Norasetthada, Arintaya Phrommintikul, Wirote

Tuntiwechapikul, **Sirinart Kumfu** and Nipon Chattipakorn. Telomere Length in Transfusion Dependent Thalassemia Patients. *Blood* 2016 128:1291.

4. Wanpitak Pongkan, Hiranya Pintana, **Sirinart Kumfu**, Piangkwan Sanguanmoo, Thidarat Jaiwongkam, Sivaporn Sivasinprasasn, Siriporn C Chattipakorn and Nipon Chattipakorn. Testosterone Replacement Protects the Heart Against Ischemic-Reperfusion Injury and Preserves Cardiac Performance in Testosterone-Deprived Male Rats with Obese-Insulin Resistance. *Endocrine Reviews* 2016, Volume 37, Issue 2 Supplement. SAT-160.
5. **Sirinart Kumfu**, Siriporn Chattipakorn, Suthat Fucharoen, Nipon Chattipakorn. T-Type Calcium Channel Blocker Exerts Similar Efficacy as Iron Chelators in Attenuating Cardiovascular and Mitochondrial Dysfunction in Iron-Overload Thalassemic Mice. *J Am Coll Cardiol (JACC)* March 17, 2015; A901
6. Wongjaikam, S.; **Kumfu, S.**; Chattipakorn, S.; Fucharoen, S.; Chattipakorn, N. Head to head comparison of therapeutic efficacy among three iron chelators on cardiac function in iron-overloaded rats. *European Heart Journal* 2015, Volume 36; 671.
7. Samniang, B.; Chanchai, T.; **Kumfu, S.**; Shinlapawittayatorn, K.; Chattipakorn, S.; Chattipakorn, N. Chronic vagus nerve stimulation exerts glycemic control and cardioprotection via preventing cardiac mitochondrial dysfunction in obese-insulin resistant rats. *European Heart Journal* 2015, Volume 36; 681.
8. Pongkan, W.; Pintana, H.; Sivasinprasan, S.; Apaijai, N.; **Kumfu, S.**; Jaiwongkam, T.; Chattipakorn, S.; Chattipakorn, N. Testosterone deprivation accelerates cardiac dysfunction and cardiac mitochondrial impairments in obese-insulin resistant rats. *European Heart Journal* 2015, Volume 36; 971.

9. Yoswaris Semaming, DVM, Jantira Sanit, MSc, **Sirinart Kumfu**, PhD, Nattayaporn Apaijai, MSc, Wanpitak Pongkan, DVM, Tharnwimol Inthachai, Siriporn C Chattipakorn, DDS, PhD and Nipon Chattipakorn, MD, PhD. Protective Effects of Protocatechuic Acid on Cardiac Function, Heart Rate Variability, and Cardiac Mitochondrial Function in Streptozotocin- Induced Diabetic Rats. *Endocrine Reviews* 2014, Volume 37, Issue 2 Supplement. Helmsley Charitable Trust Abstract Awards in Type 1 Diabetes
10. Piangkwan Sa-nguanmoo, BSc, Wasana Pratchayasakul, PhD, Hiranya Pintana, MSc, Jirapas Sripetchwandee, BSc, Sivaporn Sivasinprasasn, MSc, **Sirinart Kumfu**, PhD, Nattayaporn Apaijai, MSc, Jantira Sanit, MSc, Nipon Chattipakorn, MD, PhD and Siriporn C Chattipakorn, DDS, PhD. Obesity with Estrogen Deprivation Accelerates Brain Insulin Resistance and Aggravates Brain Mitochondrial Dysfunction. *Endocrine Reviews* 2014, Volume 37, Issue 2 Supplement.
11. Krekwit Shinlapawittayatorn; Kroekkiat Chinda; Siripong Palee; Sirirat Surinkaew; **Sirinart Kumfu**; Sarawut Kumphune; Siriporn Chattipakorn; Bruce H. KenKnight; Nipon Chattipakorn. Vagus Nerve Stimulation Initiating During Ischemia, but not Reperfusion, Exerts Cardioprotection and Is Associated with Amelioration of Cardiac Mitochondrial Dysfunction. *J Am Coll Cardiol (JACC)* April 1, 2014; A2152.
12. Kompa, A. R.; **Kumfu, S.**; Lekawanvijit, S.; Wang, B. H.; Krum, H. The uremic toxin adsorbent AST- 120 abrogates renal injury post- MI evidenced by normalization of KIM-1 protein expression and reduced collagen turnover. *European Heart Journal* 2013, Volume 34; 927.
13. **Kumfu S**, Chattipakorn S, Fucharoen S, Chattipakorn N. T-type calcium channel inhibitor attenuates cardiac dysfunction, improves cardiac

sympathovagal imbalance and decreases mortality in iron-overloaded mice. Circulation. 2011; 124: A9422.

14. Chattipakorn S, **Kumfu S**, Srichairattanakool S, Settakorn J, Fucharoen S, Chattipakorn N. T-type Calcium Channel is a Main Portal for Iron Entry in Thalassemic Heart. Circulation. 2010; 122: A11087.

Conference presentation

January 2018 Poster presentation in the 17th Annual Conference of The Thailand Research Fund (TRF), The Regent Cha Am Beach Resort, Cha-Am, Phetburi, Thailand. 10-12 January, 2018. (Outstanding poster presentation)

September 2017 Oral presentation in the 15th International Neurologic and Cardiac Electrophysiology Symposium (NCES), CERT conference room, Faculty of medicine, Chiang Mai University. 1 September, 2017.

July 2017 Poster presentation in the Alzheimer's Association International Conference (AAIC) 2017, ExCel London Convention Centre, London, England. July 16-20, 2017.

April 2016 Oral presentation in the 14th International Neurologic and Cardiac Electrophysiology Symposium (NCES), CERT conference room, Faculty of medicine, Chiang Mai University. 29 April, 2016.

January 2016 Poster presentation in the 15th Annual Conference of The Thailand Research Fund (TRF), The Regent Cha Am Beach Resort, Cha-Am, Phetburi, Thailand. 6-8 January, 2016. (Outstanding poster presentation)

March 2015 Poster presentation in American College of Cardiology (ACC) 2015 Scientific Sessions in San Diego, California, USA. March 14 - 16, 2015.

- April 2012** Oral presentation in The Royal Golden Jubilee (RGJ) - Ph.D. Congress XIII, Chonburi, Thailand. 6-8 April 2012. (Outstanding oral presentation by Ph.D. student)
- November 2011** Poster presentation in American Heart Association (AHA) Scientific Sessions 2011 in Orlando, Florida, USA. 12-16 November 2011.
- May 2010** Poster presentation in The 39th Annual Scientific Meeting of the Physiology Society of Thailand, Chonburi, Thailand. 2010. (Outstanding poster presentation by Ph.D. student)
- May 2008** Oral presentation in The 37th Physiological Society of Thailand's Annual Conference 2008, Garden Sea View Resort, Pattaya, Chonburi, Thailand (Outstanding oral presentation by M.Sc. student)
- October 2007** Oral presentation in Annual Biochemical Research Meeting The 7th Annual Meeting, Department of Biochemistry, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- July 2007** Oral presentation in Thailand Research Fund Senior Research Scholar Meeting 2007, Sujinno building, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

Area of academic expertise

- Cardiac electrophysiology
- Neurophysiology
- Cardiac function
- Thalassemia
- Iron measurement
- Cell culture
- Mitochondrial function
- High-performance liquid chromatography (HPLC)
- Western blot

- Real-time RT-PCR