

## CURRICULUM VITAE



### Associate Professor Dr. Jirapas Sripetchwandee

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<http://www.medicine.cmu.ac.th/dept/physio/2011>

**Marital Status:** Marriage

### EDUCATION

2010 *Bachelor of Pharmacy, B. Pharm. (Pharmaceutical Science - Cosmetic)*  
 First Class Honors, Silver Medal  
 Faculty of Pharmacy, Chiang Mai University, Chiang Mai, Thailand  
 2014 *Doctor of Philosophy, Ph.D. (Physiology - Neuroelectrophysiology)*  
 Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

### HONORS AND AWARDS

2016 *Travel Fellowship for the Alzheimer's Association International Conference® (AAIC®) 2016, Alzheimer's Association National Office, Chicago, IL, United States*  
 2015 *Young Investigator Awards (YIA), the 8<sup>th</sup> Federation of the Asian and Oceanian Physiological Societies (FAOPS) 2015 Congress, Bangkok, Thailand*  
 2014 *Outstanding poster presentation by Ph.D. Student, RGJ-Ph.D. Congress XV, Chonburi, Thailand*  
 2012 *Outstanding oral presentation by Ph.D. Student, RGJ Seminar Series LXXXIX Molecular mechanisms and technology developments in*

- 2012 biomedical researches, Kantary Hill, Chiang Mai, Thailand  
*Outstanding poster presentation by Ph.D. Student*, the 41<sup>st</sup> Annual Scientific Meeting of the Physiology Society of Thailand, Bangkok, Thailand
- 2010 *Ph.D. scholarship*, Royal Golden Jubilee Ph.D. program (RGJ), Thailand Research Fund under the Office of the Prime Minister, the Royal Thai Government, Thailand
- 2009 *Research Funds for Special Problems Project from Industrial and Research Projects for Undergraduate Students (IRPUS)*, Thailand Research Fund under the Office of the Prime Minister, the Royal Thai Government, Thailand
- 2009 *Outstanding Academic Achievement Award*, Faculty of Pharmacy, Chiang Mai University, Chiang Mai, Thailand
- 2007 *Outstanding Academic Achievement Award*, Faculty of Pharmacy, Chiang Mai University, Chiang Mai, Thailand
- 2006 *Outstanding Academic Achievement Award*, Faculty of Pharmacy, Chiang Mai University, Chiang Mai, Thailand
- 2005 *Outstanding Academic Achievement Award*, Faculty of Pharmacy, Chiang Mai University, Chiang Mai, Thailand

#### **PROFESSIONAL APPOINTMENT**

- 2014-Present *Academic staff*, Neurophysiology unit, Cardiac Electrophysiology Research and Training (CERT) Center, Faculty of Medicine, Chiang Mai University
- 2014-Present *Academic staff*, Cardiac Electrophysiology unit, Department of Physiology, Faculty of Medicine, Chiang Mai University
- 2016-2020 *Assistant professor*, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2020-Present *Associate professor*, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

#### **PROFESSIONAL LICENSES**

- 2010-Present Pharmacist, Thailand

#### **ORGANIZATION AND PARTICIPATION**

- 2015-Present Thai Physiology Society

#### **PRESENTATIONS AT NATIONAL MEETINGS**

- November 2019** “The 17<sup>th</sup> International Neurologic and Cardiac Electrophysiology Symposium (NCES)”, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand.
- January 2019** “The TRF-OHEC 18<sup>th</sup> Annual Congress (TOAC)”, Phetchaburi, Thailand. (*Outstanding poster presentation*)

<b>September 2017</b>	“The 15 <sup>th</sup> International Neurologic and Cardiac Electrophysiology Symposium (NCES)”, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, 2017.
<b>January 2017</b>	“The TRF-OHEC 16 <sup>th</sup> Annual Congress (TOAC)”, Phetchaburi, Thailand. ( <i>Outstanding poster presentation</i> )
<b>April 2016</b>	“The 14 <sup>th</sup> International Neurologic and Cardiac Electrophysiology Symposium (NCES)”, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand.
<b>May 2014.</b>	“RGJ-Ph.D. Congress XV”, Chonburi, Thailand. ( <i>Outstanding poster presentation by Ph.D. Student</i> )
<b>April 2014</b>	“The 43 <sup>rd</sup> Annual Scientific Meeting of the Physiology Society of Thailand”, Chonburi, Thailand, 2014.
<b>July 2013</b>	“Thailand Research Fund, Senior Research Scholar Meeting 2013”, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand.
<b>August 2012</b>	“RGJ Seminar Series LXXXIX Molecular mechanisms and technology developments in biomedical researches”. Kantary Hill, Chiang Mai, Thailand. ( <i>Outstanding oral presentation by Ph.D. Student</i> )
<b>May 2012</b>	“The 41 <sup>st</sup> Annual Scientific Meeting of the Physiology Society of Thailand”, Bangkok, Thailand. ( <i>Outstanding poster presentation by Ph.D. Student</i> )
<b>June 2011</b>	“Thailand Research Fund, Senior Research Scholar Meeting 2011”, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand.

## PRESENTATIONS AT INTERNATIONAL MEETINGS

<b>July 2019</b>	“The Alzheimer’s Association International Conference <sup>®</sup> (AAIC <sup>®</sup> ) 2019”, Los Angeles, CA, United States.
<b>July 2018</b>	“The Alzheimer’s Association International Conference <sup>®</sup> (AAIC <sup>®</sup> ) 2018”, Chicago, IL, United States.
<b>July 2016</b>	“The Alzheimer’s Association International Conference <sup>®</sup> (AAIC <sup>®</sup> ) 2016”, Toronto, Canada.
<b>July 2015</b>	“The Alzheimer’s Association International Conference <sup>®</sup> (AAIC <sup>®</sup> ) 2016”, Washington, DC, United States.
<b>November 2015</b>	“The 8 <sup>th</sup> Federation of the Asian and Oceanian Physiological Societies (FAOPS) 2015 Congress”, Bangkok, Thailand
<b>June 2014</b>	“ICE/ENDO Meetings 2014”, Chicago, IL, United States.
<b>March 2013</b>	“American College of Cardiology (ACC) 2013 Scientific Sessions”, San Francisco, CA, United States.
<b>November 2011</b>	“Society for Neuroscience Annual Meeting 2011”, Washington, DC, United States.

## ACADEMIC ACTIVITIES

### Graduate Student’s Dissertation Committees

1. Napatsorn Saiyasit, B.Sc., Member of the Doctoral Degree Committee  
Topic: Physiology (Neurophysiology)
2. Piangkwan Sa-Nguanmoo, M.Sc., Member of the Doctoral Degree Committee  
Topic: Physiology (Neurophysiology)

3. Duangkamol Mantor, B.Sc., Member of the Master Degree Committee  
Topic: Physiology (Neurophysiology)
4. Wissuta Sutham, B.Sc., Member of the Master's Degree Committee  
Topic: Physiology (Neurophysiology)
5. Titikorn Chunchai, B.Sc., Member of the Master's Degree Committee  
Topic: Physiology (Neurophysiology)

### **Special Academic Appointments**

2014-Present            Graduate School Faculty, Chiang Mai University, Chiang Mai, Thailand

### **PREVIOUS GRANT SUPPORT**

- 02/2021 - 02/2023    Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. "Effects of iron overload on synaptic proteins, Alzheimer's like pathologies and brain level and signaling of fibroblast growth factor 21 in wild-type and thalassemic mice." (PI)
- 02/2021 - 02/2023    Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. "Effects of ferroptosis inhibitor on brain iron toxicity, brain oxidative stress, brain ferroptosis signaling pathway, synaptic proteins expression and learning and memory in iron-overloaded rats." (PI)
- 07/2017 - 06/2019    *MUA-New Researcher Grant 2017(MRG)*, the Thailand Research Fund (TRF), Bangkok, Thailand. "Comparison efficacy between iron chelator (Deferiprone) and T-type calcium channels blocker (Efonidipine) on the neuropathological conditions of normal and thalassemic mice under iron-overload condition" (PI)
- 10/2017 - 09/2019    Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. "Comparison efficacy between iron chelator (Deferiprone) and T-type calcium channels blocker (Efonidipine) on the neuropathological conditions of normal and thalassemic mice under iron-overload condition." (PI)
- 10/2017 - 09/2019    Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. "Effect of Estrogen Deprivation on Skeletal Muscle Function in Obese-Insulin Resistant Rats Induced by High-Fat Diet Consumption." (PI)
- 07/2015 - 06/2017    *TRF-CHE Research Grant for New Scholar 2015*, the Thailand Research Fund (TRF), Bangkok, Thailand. "Efficacy of three iron chelators on the brain in iron-overload condition: From mitochondria to brain function study" (PI)

## RESEARCH FIELDS OF INTEREST

1. Neurophysiology
2. Neuroelectrophysiology
3. Neurochemistry
4. Behavioral tests
5. Alzheimer's disease and Neurodegeneration
6. Mitochondrial function
7. Cellular function and cell signaling
8. Iron overload

## PEER REVIEWED ARTICLES

1. **Sripetchwandee J**, Kongkaew A, Kumfu S, Chunchai T, Chattipakorn N, Chattipakorn SC. Ferrostatin-1 and Z-VAD-FMK potentially attenuated Iron-mediated neurotoxicity and rescued cognitive function in Iron-overloaded rats. *Life Sci.* 2023;313:121269. (Impact Factor= 6.780, Q1)
2. Pipatpiboon N, Koonrungsesomboon N, Suriyawong W, **Sripetchwandee J**, Turale S. Perception of benefits and barriers associated with dementia prevention behaviors among patients with diabetes. *Nurs Health Sci.* 2022;24(1):274-282. (Impact Factor= 1.857, Q2)
3. Pipatpiboon N, **Sripetchwandee J\***, Sa-nguanmoo P, Tachaudomdach C, Jomgeow T, Phrommintikul A, Chattipakorn N, Chattipakorn SC. Neutrophil-Lymphocyte Ratio (NLR) is Positively Associated with Impaired Cognitive Performance in Patients with Metabolic Syndrome. *CMU J Nat Sci.* 2022;21(1):e2022013. (Impact Factor= n/a)
4. 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 (Basel).* 2021;7(9):753. (Impact Factor= 5.816, Q1)
5. Theerajangkaphichai W, **Sripetchwandee J\***, Sriwichaiin S, Svasti S, Chattipakorn N, Tantiworawit A, Chattipakorn SC. An association between fibroblast growth factor 21 and cognitive impairment in iron-overload thalassemia. *Sci Rep.* 2021;11(1):8057. (Impact Factor= 4.379, Q1)
6. Yixia Y, **Sripetchwandee J\***, Chattipakorn N, Chattipakorn SC. The alterations of microbiota and pathological conditions in the gut of patients with colorectal cancer undergoing chemotherapy. *Anaerobe.* 2021;68:102361. (Impact Factor = 3.331, Q2)
7. Saiyasit N, Chunchai T, Jaiwongkam T, Kerdphoo S, Apaijai N, Pratchayasakul W, **Sripetchwandee J**, Chattipakorn N, Chattipakorn SC. Neurotensin receptor 1 agonist provides neuroprotection in pre-diabetic rats. *J Endocrinol.* 2021;248(1):59-74. (Impact Factor = 4.286, Q1)
8. Saiyasit N, Chunchai T, Apaijai N, Pratchayasakul W, **Sripetchwandee J**, Chattipakorn N, Chattipakorn SC. Chronic high-fat diet consumption induces an alteration in plasma/brain neurotensin signaling, metabolic disturbance, systemic inflammation/oxidative stress, brain apoptosis, and dendritic spine loss. *Neuropeptides.* 2020;82:102047. (Impact Factor = 3.286, Q2)
9. **Sripetchwandee J**, Khamseekaew J, Svasti S, Srichairatanakool S, Fucharoen S, Chattipakorn N, Chattipakorn SC. Deferiprone and efonidipine mitigated iron-overload induced neurotoxicity in wild-type and thalassemic mice. *Life Sci.* 2019;239:116878. (Impact Factor = 5.037, Q1)
10. Saiyasit N, Chunchai T, Prus D, Suparan K, Pittayapong P, Apaijai N, Pratchayasakul W, **Sripetchwandee J**, Chattipakorn N, Chattipakorn SC. Gut dysbiosis develops before

- metabolic disturbance and cognitive decline in high-fat diet-induced obese condition. *Nutrition*. 2020;69:110576. (Impact Factor = 4.008, Q1)
11. Pattanakuhar S, Sutham W, **Sripetchwandee J**, Minta W, Mantor D, Palee S, Pratchayasakul W, Chattipakorn N, Chattipakorn SC. Combined exercise and calorie restriction therapies restore contractile and mitochondrial functions in skeletal muscle of obese-insulin resistant rats. *Nutrition*. 2019;62:74-84. (Impact Factor = 4.008, Q1)
  12. **Sripetchwandee J**, Pintana H, Sa-Nguanmoo P, Boonnag C, Pratchayasakul W, Chattipakorn N, Chattipakorn SC. Comparative effects of sex hormone deprivation on the brain of insulin-resistant rats. *J Endocrinol*. 2019;241(1):1-15. (Impact Factor = 4.286, Q1)
  13. Saiyasit N, **Sripetchwandee J**, Chattipakorn N, Chattipakorn SC. Potential roles of neurotensin on cognition in conditions of obese-insulin resistance. *Neuropeptides*. 2018;72:12-22. (Impact Factor = 3.286, Q2)
  14. **Sripetchwandee J**, Chattipakorn N, Chattipakorn SC. Links Between Obesity-Induced Brain Insulin Resistance, Brain Mitochondrial Dysfunction, and Dementia. *Front Endocrinol (Lausanne)*. 2018;9:496. (Impact Factor = 5.555, Q1)
  15. Love MR, **Sripetchwandee J\***, Palee S, Chattipakorn SC, Mower MM, Chattipakorn N. Effects of biphasic and monophasic electrical stimulation on mitochondrial dynamics, cell apoptosis and cell proliferation. *J Cell Physiol*. 2018;234(1):816-824. (Impact Factor = 6.384, Q1)
  16. Sutham W, **Sripetchwandee J\***, Minta W, Mantor D, Pattanakuhar S, Palee S, Pratchayasakul W, Chattipakorn N, Chattipakorn SC. Ovariectomy and obesity have equal impact in causing mitochondrial dysfunction and impaired skeletal muscle contraction in rats. *Menopause*. 2018;25(12):1448-1458. (Impact Factor = 2.953, Q1)
  17. Mantor D, Pratchayasakul W, Minta W, Sutham W, Palee S, **Sripetchwandee J**, Kerdphoo S, Jaiwongkum T, Sriwichaiin S, Krintratun W, Chattipakorn N, Chattipakorn SC. Both oophorectomy and obesity impaired solely hippocampal-dependent memory via increased hippocampal dysfunction. *Exp Gerontol*. 2018;108:149-158. (Impact Factor = 4.032, Q2)
  18. Phrommintikul A, Sa-Nguanmoo P, **Sripetchwandee J**, Vathesatogkit P, Chattipakorn N, Chattipakorn SC. Factors associated with cognitive impairment in elderly versus nonelderly patients with metabolic syndrome: the different roles of FGF21. *Sci Rep*. 2018;8(1):5174. (Impact Factor = 4.379, Q1)
  19. Pintana H, Apaijai N, Kerdphoo S, Pratchayasakul W, **Sripetchwandee J**, Suntornsaratoon P, Charoenphandhu N, Chattipakorn N, Chattipakorn SC. Hyperglycemia induced the Alzheimer's proteins and promoted loss of synaptic proteins in advanced-age female Goto-Kakizaki (GK) rats. *Neurosci Lett*. 2017;655:41-45. (Impact Factor = 3.046, Q3)
  20. 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;11(7):e0159414. (Impact Factor = 3.240, Q1)
  21. **Sripetchwandee J**, Wongjaikam S, Krintratun W, Chattipakorn N, Chattipakorn SC. A combination of an iron chelator with an antioxidant effectively diminishes the dendritic loss, tau-hyperphosphorylation, amyloids- $\beta$  accumulation and brain mitochondrial dynamic disruption in rats with chronic iron-overload. *Neuroscience*. 2016;332:191-202. (Impact Factor = 3.590, Q2)
  22. 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;6:26866. (Impact Factor = 4.379, Q1)
23. Nanegrungsunk D, Apaijai N, Yarana C, **Sripetchwandee J**, Limpastan K, Watcharasaksilp W, Vaniyapong T, Chattipakorn N, Chattipakorn S. Bevacizumab is superior to temozolomide in causing mitochondrial dysfunction in human brain tumors. *Neurol Res.* 2016;38(4):285-293. (Impact Factor = 2.448, Q2)
  24. Semaming Y, **Sripetchwandee J\***, Sa-Nguanmoo P, Pintana H, Pannangpetch P, Chattipakorn N, Chattipakorn SC. Protocatechuic acid protects brain mitochondrial function in streptozotocin-induced diabetic rats. *Appl Physiol Nutrition Metab.* 2015;40(10):1078-1081. (Impact Factor = 2.665, Q1)
  25. Pipatpiboon N, **Sripetchwandee J**, Chattipakorn SC, Chattipakorn N. Effects of PPAR $\gamma$  agonist on heart rate variability and cardiac mitochondrial function in obese-insulin resistant rats. *Int J Cardiol.* 2015;201:121-122. (Impact Factor = 4.164, Q1)
  26. Prachayasakul 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;72:68-77. (Impact Factor = 3.587, Q1)
  27. Pintana H, **Sripetchwandee J**, Supakul L, Apaijai N, Chattipakorn N, Chattipakorn S. Garlic extract attenuates brain mitochondrial dysfunction and cognitive deficit in obese-insulin resistant rats. *Appl Physiol Nutrition Metab.* 2014;39(12):1373-1379. (Impact Factor = 2.665, Q1)
  28. **Sripetchwandee J**, Pipatpiboon N, Chattipakorn N, Chattipakorn S. DPP-4 inhibitor and PPAR $\gamma$  agonist restore the loss of cal dendritic spines in obese insulin resistant rats. *Arch Med Res.* 2014;45(7):547-552 (Impact factor = 2.235, Q2)
  29. **Sripetchwandee J**, Pipatpiboon N, Chattipakorn N, Chattipakorn S. Combined therapy of iron chelator and antioxidant completely restores brain dysfunction induced by iron toxicity. *PLoS One.* 2014;9(1):e85115. (Impact Factor = 3.240, Q1)
  30. **Sripetchwandee J**, KenKnight SB, Sanit J, Chattipakorn SC, Chattipakorn N. Blockade of mitochondrial calcium uniporter prevents cardiac mitochondrial dysfunction caused by iron overload. *Acta Physiol (Oxf).* 2014;210:330-341. (Impact factor = 6.311, Q1)
  31. **Sripetchwandee J**, Sanit J, Chattipakorn N, Chattipakorn SC. Mitochondrial calcium uniporter blocker effectively prevents brain mitochondrial dysfunction caused by iron overload. *Life Sci.* 2013;92(4-5):298-304. (Impact Factor = 5.037, Q1)
  32. Yarana C, **Sripetchwandee J**, Sanit J, Chattipakorn SC, Chattipakorn N. Calcium-induced cardiac mitochondrial dysfunction is predominantly mediated by cyclosporine A-dependent mitochondrial permeability transition pore. *Arch Med Res.* 2012;43(5):333-338. (Impact factor = 2.235, Q2)

\* *Co-first author/ Corresponding author/ Co-corresponding author*

## PEER REVIEWED ABSTRACTS

1. Saiyasit N, Chunchai T, Apaijai N, Prachayasakul W, **Sripetchwandee J**, Chattipakorn N, Chattipakorn SC. Increases in plasma neurotensin levels and brain neurotensin receptors were associated with brain pathology in obese, insulin-resistant rats. *Alzheimer's and Dementia; The Journal of Alzheimer's Association.* 2020;16(S2):e037444 (Impact Factor = 17.127)
2. Saiyasit N, Chunchai T, Apaijai N, Prachayasakul W, **Sripetchwandee J**, Chattipakorn N, Chattipakorn SC. Neurotensin agonist alleviates metabolic disturbance, neuropathology, and cognitive decline in high-fat diet-induced obese rats.

- Alzheimer's and Dementia; The Journal of Alzheimer's Association*. 2020;16(S2): e038940 (Impact Factor = 17.127)
3. **Sripetchwandee J**, Khamseekaew J, Svasti S, Srichairatanakool S, Fucharoen S, Chattipakorn N, Chattipakorn SC. Deferiprone and efonidipine mitigated iron-overload induced neurotoxicity in wild-type and thalassemic mice. *Alzheimer's and Dementia; The Journal of Alzheimer's Association*. 2019;15(7S):P2-048 (Impact Factor = 17.127)
  4. Saiyasit N, Prus D, Supraran K, Kerdphoo S, Jaiwongkum T, **Sripetchwandee J**, Chattipakorn N, Chattipakorn SC. 4. Gut dysbiosis initiates metabolic disturbance, cognitive decline, and microglial hyperactivity in high-fat-diet-induced obese rats. *Alzheimer's and Dementia; The Journal of Alzheimer's Association*. 2019;15(7S):P1-004. (Impact Factor = 17.127)
  5. Saiyasit N, Prus D, Supraran K, Kerdphoo S, Jaiwongkum T, **Sripetchwandee J**, Chattipakorn N, Chattipakorn SC. Gut dysbiosis induced brain pathological changes and cognitive decline in HFD-fed rats. *The Journal of Physiological Sciences*. 2019;69(1):1-P226. (Impact Factor = 2.781)
  6. Prachayasakul W, Mantor D, Minta W, Sutham W, Palee S, **Sripetchwandee J**, Kerdphoo S, Jaiwongkam T, Sriwichain S, Krinratun W, Chattipakorn N, Chattipakorn SC. Both estrogen deprivation and obesity impair hippocampal-dependent memory, but estrogen deprivation does not aggravate that memory under an obese condition. *Alzheimer's and Dementia; The Journal of Alzheimer's Association*. 2018;14(7):P728-P729 (Impact Factor = 17.127)
  7. Phrommintikul A, Sa-nguanmoo P, **Sripetchwandee J**, Vathesatogkit P, Chattipakorn N, Chattipakorn SC. FGF 21 is one of the factors associated with cognitive decline in nonelderly patients with metabolic syndrome. *Alzheimer's and Dementia; The Journal of Alzheimer's Association* 2018;14(7):P1170-P1171 (Impact Factor = 17.127)
  8. Sripetchwandee NP, Sa-nguanmoo P, **Sripetchwandee J**, Phrommintikul A, Chattipakorn N, Chattipakorn SC. Neutrophil-lymphocyte ratio (NLR) is a possible prognostic marker of poor cognitive performance in MetS patients. *Alzheimer's and Dementia; The Journal of Alzheimer's Association*. 2016;12(7):P675–P676 (Impact Factor = 17.127)
  9. **Sripetchwandee J**, Wongjaikam S, Krinratun W, Chattipakorn N, Chattipakorn S. Combined iron chelator and antioxidant therapy effectively diminishes the dendritic loss, alzheimer's pathology and brain mitochondrial dynamic disruption in rats with chronic iron overload. *Alzheimer's and Dementia; The Journal of Alzheimer's Association*. 2016;12(7):P1022-P1023 (Impact Factor = 17.127)
  10. **Sripetchwandee J**, Wongjaikam S, Krinratun W, Chattipakorn N, Chattipakorn S. Therapeutic comparisons of three iron chelators in the brain of iron-overload rats. *The Journal of Physiological Sciences*. 2015;65(2):S-A86. (Impact Factor = 2.781)
  11. Semaming Y, **Sripetchwandee J**, Sa-Nguanmoo P, Pintana H, Pannangpetch P, Chattipakorn N, Chattipakorn SC. Protocatechuic acid protects brain mitochondrial function in streptozotocin-induced diabetic rats. *Alzheimer's and Dementia; The Journal of Alzheimer's Association*. 2015;11(7):P846 (Impact Factor = 17.127)
  12. Chunchai T, Samniang B, **Sripetchwandee J**, Shinlapawitatorn K, KenKnight BH, Chattipakorn N, Chattipakorn SC. Vagus nerve stimulation restores cognitive function impaired by chronic obese-insulin resistant rats. *Alzheimer's and Dementia; The Journal of Alzheimer's Association*. 2015;11(7):P497-P498 (Impact Factor = 17.127)
  13. Prachayasakul W, Sa-nguanmoo P, Pintana H, **Sripetchwandee J**, Tawinvisan R, Chattipakorn N, Chattipakorn S. Obesity aggravates the severity of hippocampal synaptic dysfunction and cognitive declines in estrogen-deprived rats via increased



- brain oxidative stress and decreased dendritic spines. *Endocrine Reviews*. 2014;35: SAT-0011. (Impact Factor = 19.871)
14. Sa-nguanmoo P, Pratchayasakul W, Pintana H, **Sripetchwandee J**, Sivasinprasasn S, Kumfu S, Apaijai N, Sanit J, Chattipakorn N, Chattipakorn S. Obesity with estrogen deprivation accelerates brain insulin resistance and aggravates brain mitochondrial dysfunction. *Endocrine Reviews*. 2014;35: SAT-0013. (Impact Factor = 19.871)
  15. Chattipakorn SC, Pintana H, **Sripetchwandee J**, Apaijai N, Supakul, Chattipakorn N. Garlic extract restores brain mitochondrial function and attenuates cognitive impairment in obese-insulin resistant rats. *Endocrine Reviews*. 2014;35: SAT-0892. (Impact Factor = 19.871)
  16. Pintana W, Wanpitak P, **Sripetchwandee J**, Pratchayasakul W, Apaijai N, Chattipakorn N, Chattipakorn S. Testosterone deprivation without obesity does not cause brain insulin resistance and brain mitochondrial dysfunction in orchietomized rats. *Endocrine Reviews*. 2014: 35: SUN-0668. (Impact Factor = 19.871)
  17. **Sripetchwandee J**, KenKnight SB, Sanit J, Chattipakorn SC, Chattipakorn N. Mitochondrial calcium uniporter blocker completely prevents cardiac mitochondrial dysfunction caused by iron overload. *Journal of the American College of Cardiology*. 2013;61(10):A172. (Impact Factor = 24.094)
  18. **Sripetchwandee J**, Sanit J, Chattipakorn N, Chattipakorn SC. Mitochondrial calcium uniporter blocker effectively prevents brain mitochondrial dysfunction caused by iron overload. *Journal of Physiological and Biomedical Sciences*. 2012;25(1):50.
  19. **Sripetchwandee J**, Sanit J, Chattipakorn N, Chattipakorn SC. Mitochondrial calcium uniporter blocker prevents neuronal mitochondrial dysfunction caused by iron overload. *Neuroscience Meeting Planner*. Washington, DC: Society for Neuroscience, 2011.

## CONFERENCE SHORT PAPERS AND ABSTRACTS

1. **Sripetchwandee J**, Khamseekaew J, Svasti S, Srichairatanakool S, Fucharoen S, Chattipakorn N, Chattipakorn SC. Effects of oral iron chelator and calcium channel blockers on neurotoxicity in iron-overloaded thalassemic model. The 17<sup>th</sup> International Neurologic and Cardiac Electrophysiology Symposium (NCES), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, 2019.
2. **Sripetchwandee J**, Khamseekaew J, Svasti S, Srichairatanakool S, Fucharoen S, Chattipakorn N, Chattipakorn SC. Deferiprone and efonidipine equally attenuated brain iron deposition and iron-mediated brain toxicity in wild-type and thalassemic mice. The TRF-OHEC 18<sup>th</sup> Annual Congress (TOAC), 2019, Phetchaburi, Thailand. (*Outstanding poster presentation*)
3. **Sripetchwandee J**, Chattipakorn N, Chattipakorn SC. NAC as an adjuvant for iron overloaded brain: potential neuroprotective mechanisms. The 15<sup>th</sup> International Neurologic and Cardiac Electrophysiology Symposium (NCES), Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, 2017.
4. **Sripetchwandee J**, Wongjaikam S, Krintratun W, Chattipakorn N, Chattipakorn SC. A Combination of an iron chelator with an antioxidant effectively diminishes the dendritic loss, tau-hyperphosphorylation, amyloids- $\beta$  accumulation and brain mitochondrial dynamic disruption in rats with chronic iron-overload. The TRF-OHEC 16<sup>th</sup> Annual Congress (TOAC), 2017, Phetchaburi, Thailand. (*Outstanding poster presentation*)
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