



## Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)

999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon

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**Name:** Dr. Suwakon Wongjaikam

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**Current position:** Lecturer

### Education:

Ph.D. in Physiology, Faculty of Medicine, Chiang Mai University

M.Sc. in Biochemistry, Faculty of Medicine, Chiang Mai University

B.Sc. in Medical Technology, Faculty of Allied Health Sciences, Naresuan University

### Research Interest and Expertise:

1. Nutrition and Molecular cancer
2. Nutrition and Cardiovascular disease
3. Nutrition and Age-related diseases

### Research Experiences:

2017-2017: Research student at Rutgers-New Jersey Medical School, New Jersey, United States

2018-2019: Postdoctoral Fellowship at Chulalongkorn University

### Publications

#### National -

#### International

#### Paper publications:

1. Fefelova N, **Wongjaikam S**, Pamarthi SH, Siri-Angkul N, Comollo T, Kumari A, Garg V, Ivessa A, Chattipakorn SC, Chattipakorn N, Gwathmey JK, Xie LH. Deficiency of mitochondrial calcium uniporter abrogates iron overload-induced cardiac dysfunction by reducing ferroptosis. *Basic Research in Cardiology* 2023;118(1):21.
2. Gordan R, **Wongjaikam S**, Gwathmey JK, Chattipakorn N, Chattipakorn SC, Xie LH. Involvement of cytosolic and mitochondrial iron in iron overload cardiomyopathy: an update. *Heart Failure Review*. 2018; 23(5):801-816.



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3. 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 Ca<sup>2+</sup> regulation in iron-overloaded thalassemic mice. *Cell Calcium*. 2018; 72:18-25.
4. Nuntaphum W, Pongkan W, **Wongjaikam S**, Thummasorn S, Tanajak P, Khamseekaew J, Intachai K, Chattipakorn SC, Chattipakorn N, Shinlapawittayatorn K. Vagus nerve stimulation exerts cardioprotection against myocardial ischemia/ reperfusion injury predominantly through its efferent vagal fibers. *Basic Research in Cardiology*. 2018;113(4):22.
5. **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. *Scientific Reports*. 2017; 7:44460.
6. 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. *European Journal of Pharmacology*. 2017; 799:118-127.
7. **Wongjaikam S**, Kumfu S, Khamseekaew J, Sretciphwandee 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.
8. 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.
9. Natesirinilkul R, Charoenkwan P, Nawarawong W, Boonsri S, Tantivate P, **Wongjaikam S**, Manowong S, Sanguansermisri T. Hypercoagulable state as demonstrated by thromboelastometry in hemoglobin E/beta-thalassemia patients: Association with clinical severity and splenectomy status. *Thrombosis Research*. 2016; 140:125-31.
10. **Wongjaikam S**, Kumfu S, Chattipakorn SC, Fucharoen S, Chattipakorn N. Current and future treatment strategies for iron overload cardiomyopathy. *European Journal of Pharmacology*. 2015; 765:86-93.
11. **Wongjaikam S**, Summart R, Chewonarin T. Apoptosis induction in colon cancer cell lines and alteration of aberrant crypt foci in rat colon by purple rice (*Oryza sativa* L. var. *glutinosa*) extracts. *Nutrition and Cancer*. 2014;66(4):690-9.



**Abstract publications:**

1. Fefelova N, **Wongjaikam S**, Siri-Angkul N, Gwathmey JK, Chattipakorn N, Chattipakorn SC, Xie L. Deficiency of Mitochondrial Calcium Uniporter Protects Mouse Hearts from Iron Overload by Attenuating Ferroptosis. *Circulation*. 2020;142:A15737.
2. Siri-Angkul N, Gordan R, **Wongjaikam S**, Fefelova N, Gwathmey JK, Chattipakorn SC, Chattipakorn N, Xie L. Activation of Transient Receptor Potential Canonical Channel Currents in Iron-Overloaded Cardiac Myocytes. *Circulation*. 2019;125:A507.
3. Gordan R, **Wongjaikam S**, Fefelova N, Siri-Angkul N, Gwathmey JK, Chattipakorn N, Chattipakorn SC, Xie L. Mitochondrial Permeability Transition Pore, Calcium Uniporter, and Iron Overload in the Heart. *Circulation*. 2018;123:A254.
4. Shinlapawittayatorn K, Nuntaphum W, Tanajak P, Thummasorn S, Khamseekaew J, **Wongjaikam S**, Chattipakorn SC, Chattipakorn N. Vagus nerve stimulation requires both ipsilateral and contralateral efferent vagal activity to fully exert its cardioprotection against cardiac ischemia/reperfusion injury. *Journal of the American College of Cardiology*. 2017;69(11)(Abstract supplement):50.
5. Sripetchwandee J, **Wongjaikam S**, Krintratun W, Chattipakorn N, Chattipakorn SC. 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*. 2016;12(7) (Abstract supplement):1022-1023.
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;36 (Abstract Supplement):671.
7. **Wongjaikam S**, Kumfu S, Chattipakorn SC, Fucharoen S, Chattipakorn N. Combined therapy of iron chelator and antioxidant completely restores left ventricular dysfunction in iron-overloaded rats. *Journal of Physiological Sciences*. 2015; ABS0231:S-A95.
8. Sripetchwandee J, **Wongjaikam S**, Krintratun W, Chattipakorn N, Chattipakorn SC. Therapeutic comparisons of three iron chelators in the brain of iron-overloaded rats. *Journal of Physiological Sciences*. 2015;ABS0208:S-A86.