

## Curriculum Vitae

**RATTAPONG SUNGNOON, MD, PhD**



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Marital Status Married

### EDUCATION

1994 – 2000 Doctor of Medicine, M.D., Honor  
Chiang Mai University, Thailand  
2010 – 2014 Doctor of Philosophy (Ph.D.) in Medical Engineering  
Thammasat University, Thailand

### PROFESSIONAL APPOINTMENT

2004-2007 Physiological Curriculum Committee for second-year Medical Student,  
Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand  
2004-2007 Comprehensive Examination Committee for Pre-clinic Medical Student,  
Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

2004-2007	Physiological Curriculum Committee for second-year Paramedical Student, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2005-2007	Graduation Ceremony Committee, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2005-2007	Medical Student Scholarship Committee, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2005-2007	Medical Student Dormitory Committee, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2005-2007	Cardiovascular System Curriculum Committee for second-year Medical Student, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2005-2007	Educational Quality Accreditation Committee, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2005-2007	Research Committee, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2006-2007	Health Promotion in Medical Student Committee, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2017-Present	Assistant professor, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

### **PROFESSIONAL LICENSES**

2000-Present            M.D. (Thailand)

### **ORGANIZATION AND PARTICIPATION**

2004-Present            Thai Physiology Society

### **PRESENTATIONS AT NATIONAL MEETINGS**

- May 2006                      Presentation at the 35<sup>th</sup> Annual Scientific Meeting of the Thai Physiological Society. Chiang Mai, Thailand.
- May 2012                      Poster session presented at the 41st Annual scientific meeting of the Physiology Society of Thailand, Bangkok, Thailand.
- December 2012              Presentation at the 1st Conference on Graduate Student Network of Thailand, Pathumthani, Thailand.
- February 2014              Presentation at the 6th Academic week, Faculty of Engineering, Thammasat University, Thailand, Pathumthani, Thailand.

### **PRESENTATIONS AT INTERNATIONAL MEETINGS**

- March 2006                      Presentation at the 70<sup>th</sup> Annual Scientific Meeting of the Japanese Circulation Society. Nagoya, Japan.
- December 2012              Presentation at the 5th Biomedical Engineering International Conference (BMEiCON), Ubonratchathani, Thailand & Champasak, Laos.
- May 2019                      Presentation at the 7th IWBBIO-2019: International Work-Conference on Bioinformatics and Biomedical Engineering; 2019 May 8-10; Granada, Spain.

### **INVITED LECTURES**

- February 2005              Invited lecture: Electrocardiogram and Cardiac Arrhythmia, Faculty of Veterinary Medicine, Chiang Mai University, Chiang Mai, Thailand
- November 2005              Invited lecture: Respiratory Physiology for Cosmetic Sciences, Mae Fah Luang University, Chiang Rai, Thailand
- July 2006                      Invited lecture: Cardiovascular Physiology for Applied Alternative Medicines, Mae Fah Luang University, Chiang Rai, Thailand
- November 2006              Invited lecture: Cardiovascular Physiology for Cosmetic Sciences, Mae Fah Luang University, Chiang Rai, Thailand

## ACADEMIC ACTIVITIES

### Special Academic Appointments

2000-2001	Rotating Intern, Chiang Mai University Hospital, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2001-2004	Residency training in General Surgery, Department of Surgery, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2004-Present	Instructor, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2007-2009	Researcher, Heart Failure Research Center, Department of Experimental Cardiology, Academic Medical Center, University of Amsterdam, the Netherlands

### RESEARCH GRANT SUPPORT

Aug 2024-Present	Endowment Fund, Program Management Unit for Competitiveness Enhancement (PMUC), Thailand. "Effect of novel food in the form of beverage derived from Coffea Arabica pulp extract on lowering blood pressure in hypertensive patients with hyperlipidemia" (Co-Principal Investigator/Co-PI)
Jun 2021-2022	Endowment Fund, Thailand Science Research and Innovation (TSRI), Thailand. "Genomics and Metabolomics in Kynurenine Metabolism Pathway for Pathologic and Degree of Coronary Occlusion Prediction" (Co-Principal Investigator/Co-PI)

### RESEARCH FIELDS OF INTEREST

1. Cardiovascular physiology and cardiac electrophysiology
2. Herbs and anti-arrhythmic effects
3. Calcium handling of cardiac myocytes and arrhythmogenesis
4. Biomedical engineering: ECG signal processing

**PEER REVIEWED ARTICLES**

1. Duangburong S, Muengtaweepongsa S, **Sungnoon R**, Pruksaphanrat B. Automatic Diagnosis of Atrial Fibrillation using multimodal ECG signal identities compared between Machine Learning (ML) and Adaptive Neuro-Fuzzy Inference System (ANFIS). *Journal of Healthcare Engineering*. Manuscript submitted for publication. (in press.)
2. **Sungnoon R**, Weerateerangkul P\*. Acute effects of Ganoderma lucidum on blood pressure in rats. *Health Sci Sci Tech Rev* 2023;16(3):30-39.
3. Muengtaweepongsa S, **Sungnoon R**, Ngarmukos T. Increased sample entropy and high heart rate variability fluctuation in persistent atrial fibrillation as compared with paroxysmal atrial fibrillation: a matched case-control study. *Journal of Cardiovascular Disease Research*. 2021;12:125-133.

**PEER REVIEWED ABSTRACTS**

1. **Sungnoon R** and Prasertwitayakij N. Correlations between sample entropy as well as atrial fibrillatory rate and CHA<sub>2</sub>DS<sub>2</sub>-VASc score in patients with atrial fibrillation. Poster session presented at: IWBBIO-2019: International Work-Conference on Bioinformatics and Biomedical Engineering; 2019 May 8-10; Granada, Spain.