

Curriculum Vitae

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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 oot the 35th 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.
- Febuary 2014 Presentation at the 6th Academic week, Faculty of Engineering, Thammasat University, Thailand, Pathumthani, Thailand.

PRESENTATIONS AT INTERNATIONAL MEETINGS

- March 2006 Presentation at the 70th 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

June 2021-Present	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)
Oct 2018-2020	Endowment Fund, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand. “Acute Effect of Ganoderma lucidum on Blood Pressure in Rats” (Principal Investigator/PI)
Feb 2016-2018	Endowment Fund, National Science and Technology Development Agency, Thailand. “Correlations Between Sample Entropy as well as Atrial Fibrillatory Rate and CHA ₂ DS ₂ -VASc Score in Patients with Atrial Fibrillation” (PI)
May 2006-Sep 2007	Endowment Fund, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand. “Effects of Garlic Powder on the Induction of Ventricular Fibrillation in Swine.” (PI)
Nov 2004-Oct 2006	Endowment Fund, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand. “Effects of Garlic Powder on Defibrillation Efficacy in Swine.” (PI)
Nov 2004-Oct 2006	Endowment Fund, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand. “Effects of Sildenafil Citrate and Nitroglycerine Combination on Defibrillation Efficacy in Swine.” (Co-PI)
Sep 2004-Feb 2006	Endowment Fund, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand. “Effects of Sildenafil Citrate on Defibrillation Efficacy in Swine.” (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. 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.
2. **Sungnoon R**, Suwanprasert K, Muengtaweepongsa S. Reply to correspondence by Alcaez R and Rieta JJ. *Neurology Asia*. 2014;19:337-338.
3. **Sungnoon R**, Suwanprasert K, Muengtaweepongsa S. Atrial electrophysiological property analysis by sample entropy and atrial fibrillatory rate with cardiac autonomic derangements in acute ischemic stroke with atrial fibrillation. *Neurology Asia*. 2014;19:11-18.
4. **Sungnoon R**, Muengtaweepongsa S, Kitipawong P, Ngarmukos T, Suwanprasert K. Increased sample entropy in atrial fibrillation relates to cardiac autonomic dysfunction determined by heart rate variability: a preliminary study. Proceedings of the 5th Biomedical Engineering International Conference (BMEiCON); 2012 Dec 5-7; Ubonratchathani, Thailand & Champasak, Laos. IEEE Xplore. 2012 Dec. doi: 10.1109/BMEiCon.2012.6465461.
Available from: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6465461>
5. Den Ruijter HM, Franssen R, Verkerk AO, van Wijk DF, Vaessen SF, Holleboom AG, Levels JH, Opthof T, **Sungnoon R**, Stroes ES, Kuivenhoven JA, Coronel R. Reconstituted high-density lipoprotein shortens cardiac repolarization. *Journal of the American College of Cardiology*. 2011;58:40-44.
6. Kanlop N, Shinlapawittayatorn K, **Sungnoon R**, Weerateerangkul P, Chattipakorn S, Chattipakorn N. Cilostazol attenuates ventricular arrhythmia induction and improves defibrillation efficacy in swine of garlic on the induction of ventricular fibrillation. *The Canadian Journal of Physiology and Pharmacology*. 2010;88:422-428.

7. Kanlop N, Shinlapawittayatorn K, **Sungnoon R**, Chattipakorn S, Lailerd N, Chattipakorn N. Sildenafil citrate on the inducibility of ventricular fibrillation and upper limit of vulnerability in swine. *Medical Science Monitor*. 2008;14:BR205-209.
8. **Sungnoon R**, Kanlop N, Chattipakorn S, Chattipakorn N. Effects of garlic on the induction of ventricular fibrillation. *Nutrition*. 2008;24:711-716
9. **Sungnoon R**, Shinlapawittayatorn K, Chattipakorn S, Incharoen T, Chattipakorn N. Effects of garlic on defibrillation efficacy in swine. *International Journal of Cardiology*. 2008;126:143-144.
10. Chattipakorn N, Shinlapawittayatorn K, **Sungnoon R**, Chattipakorn S. Fish oil does not improve defibrillation efficacy. *International Journal of Cardiology*. 2007;122:85-86.
11. **Shinlapawittayatorn K**, Chattipakorn S, Sungnoon R, Chattipakorn N. Effects of combined sildenafil-nitric oxide donor on defibrillation efficacy. *Journal of the Medical Association of Thailand*. 2007;90:2143-2149.
12. Chattipakorn N, Shinlapawittayatorn K, **Sungnoon R**, Chattipakorn SC. Effects of n-3 polyunsaturated fatty acid on upper limit of vulnerability shocks. *International Journal of Cardiology*. 2006;107:299-302.
13. **Shinlapawittayatorn K**, Sungnoon R, Chattipakorn S, Chattipakorn N. Effects of sildenafil citrate on defibrillation efficacy. *Jouranal of Cardiovascular Electrophysiology*. 2006;17:292-295.

PEER REVIEWED ABSTRACTS

1. **Sungnoon R** and Prasertwitayakij N. Correlations between sample entropy as well as atrial fibrillatory rate and CHA₂DS₂-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.
2. **Sungnoon R**, Muengtaweepongsa S, Suwanprasert K. Novel biosignal parameters relate to the brain-heart axis concept in ischemic stroke patients with atrial fibrillation: a preliminary study. Poster session presented at: 41st Annual scientific meeting of the Physiology Society of Thailand; 2012 May 2-4; Bangkok, Thailand.
3. Chattipakorn N, Shinlapawittayatorn K, **Sungnoon R**, Chattipakorn S. Combined phosphodiesterase-5 inhibitor-nitric oxide donor attenuates defibrillation efficacy. *Europace*. 2007;9:178.

4. **Sungnoon R**, Shinlapawittayatorn K, Chattipakorn S, Incharoen T, Chattipakorn N. Garlic improves defibrillation efficacy in swine. *Circulation Journal*. 2006;70:392.
5. Chattipakorn N, Shinlapawittayatorn K, **Sungnoon R**, Chattipakorn S. Effects of fish oil on shock-induced arrhythmia and defibrillation efficacy. *Circulation Journal*. 2006;70:415.
6. Shinlapawittayatorn K, **Sungnoon R**, Chattipakorn S, Chattipakorn N. Sildenafil citrate markedly decreases defibrillation efficacy in a dose-dependent manner. *Circulation Journal*. 2006;70:344.
7. Shinlapawittayatorn K, **Sungnoon R**, Chattipakorn S , Suriyasataporn W, Chattipakorn N. Sildenafil citrate markedly increases defibrillation threshold in swine. *Journal of the American College of Cardiology*. 2005;45:110A.