

Curriculum Vitae

PUNATE WEERATEERANGKUL, PhD

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EDUCATION

2012 *Ph.D.* (Physiology), Chiang Mai University, Chiang Mai, Thailand
2007 *M.Sc.* (Physiology), Chiang Mai University, Chiang Mai, Thailand
2002 *B.Sc.* (Zoology), Chiang Mai University, Chiang Mai, Thailand

PROFESSIONAL APPOINTMENT

2017-Present *Assistant professor*,
Department of Physiology, Faculty of Medicine, Chiang Mai University,
Chiang Mai, Thailand
September 2010- *Visiting predoctoral fellow*,
Taipei Medical University, Taipei, Taiwan (Prof. Dr. Chen, Yi-Jen, M.D.)
March 2011
2007-2016 *Instructor*,
Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2007-2016 *Staff*,
Cardiac Electrophysiology Research and Training Center, Department
of Physiology, Faculty of Medicine, Chiang Mai University, Chiang
Mai, Thailand
2006-2007 *Graphic designer*,
Advanced Health Innovation Co., Ltd.
2003-2005 *Graphic & web designer*,
SuriyanChandra Co., Ltd.

ORGANIZATION AND PARTICIPATION

2007-Present Thai Physiology Society (Member No. 331)

HONORS AND AWARDS

- 2012 *Outstanding Research of the Year 2012*, the Thailand Research Fund, Bangkok, Thailand (PI: Prof. Dr. Nipon Chattipakorn, M.D.)
- 2010 *2nd prize*, oral presentation at 39th Annual Scientific Meeting of the Physiological Society of Thailand, Pattaya, Chonburi, Thailand
- 2008-2012 *Sandwich scholarship for Ph. D. study*, the Office of the Higher Education Commission of Thailand
- 2008 *Scholarship for the Research*, Faculty of Medicine, Chiang Mai University
- 2007 *Fellowship from IBRO- ISN Neuroscience School @ NU*, Naresuan University, Phitsanulok Thailand
- 2002-2003 *Scholarship from Graduate School*, Chiang Mai University, Chiang Mai, Thailand
- 2001 *Outstanding Academic Achievement Award*, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand
- 2000 *Outstanding Academic Achievement Award*, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand
- 1999 *Outstanding Academic Achievement Award*, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand

RESEARCH GRANT SUPPORT

- 2017-2018 Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand (PHY-2560-04926)
- 2017-2018 Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand (PHY-2559-04345)
- 2013-2015 *TRF-CHE Research Grant for New Scholar*, the Thailand Research Fund, Bangkok, Thailand (MRG5680094)

PRESENTATIONS AT INTERNATIONAL MEETINGS

- June 2009 EUROPACE 2009, Berlin, Germany

PRESENTATIONS AT NATIONAL MEETINGS

- September 2010 Commission on Higher Education Congress III: University Staff Development Consortium, Pattaya, Chonburi, Thailand
- May 2010 39th Annual Scientific Meeting of the Physiological Society of Thailand, Pattaya, Chonburi, Thailand
- May 2008 37th Annual Scientific Meeting of the Physiological Society of Thailand, Pattaya, Chonburi, Thailand
- July 2007 13th Thai Neuroscience Society (TNS) Conference 2007, Phitsanulok, Thailand

April 2007 36th Annual Scientific Meeting of the Physiological Society of Thailand, Ayudhaya, Thailand
December 2006 2nd Vitee Vijai CMU, Chiang Mai, Thailand
April 2005 34th Annual Scientific Meeting of the Physiological Society of Thailand, Chumporn, Thailand

INVITED LECTURES AT NATIONAL MEETINGS

May 14, 2010 Thailand Research Fund Senior Research Scholar Meeting (Professor Dr. Nipon Chattipakorn), Chiang Mai, Thailand
July 10, 2015 Thailand Research Fund Senior Research Scholar Meeting (Professor Dr. Nipon Chattipakorn), Chiang Mai, Thailand

INVITED SPEAKER FOR SPECIAL TRAININGS

September 27, 2018 *Techniques in Scientific Research Practice, Presentation and Publication*, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
February 27-28, 2018 *Laboratory Teaching in Animal Model Using PowerLab*, Faculty of Science, Thaksin University, Phatthalung, Thailand
September 18, 2013 *Adobe Photoshop for Scientific Research Presentation and Publication*, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
September 4, 2013 *The Teaching Development by Information Technology*, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
November 21, 2012 *Adobe Photoshop for Scientific Research Presentation and Publication*, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

ACADEMIC ACTIVITIES

2017-Present *Committee*, Introduction to Biomedical Sciences II Section for Medical Curriculum, Faculty of Medicine, Chiang Mai University
2016-Present *Assistant to Editor-in-Chief*, Journal of Physiological and Biomedical Sciences
2012-Present *Committee*, Graduate School Faculty, Chiang Mai University, Chiang Mai, Thailand
2012-Present *Committee*, Quality Assurance, Department of Physiology, Faculty of Medicine, Chiang Mai University
2013-2017 *Assistant Chair Information Technology Affairs*, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2013-2016 *Committee*, Knowledge Management, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

2012-2016	<i>Committee</i> , Cardiovascular Section for Medical Curriculum, Faculty of Medicine, Chiang Mai University
2012-2014	<i>Webmaster</i> , Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
2007-2014	<i>Webmaster</i> , Cardiac Electrophysiology Research and Training Center, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

ORIGINAL ARTICLES

1. **Weerateerangkul P**, Shinlapawittayatorn K, Palee S, Apaijai N, Chattipakorn SC, Chattipakorn N. Early testosterone replacement attenuates intracellular calcium dyshomeostasis in the heart of testosterone-deprived male rats. *Cell Calcium* 2017;67:22-30. (2017 Impact factor = 3.718)
2. Shinlapawittayatorn K, Chinda K, Palee S, Surinkaew S, Thunsiri K, **Weerateerangkul P**, Chattipakorn S, Kenknight BH, Chattipakorn N. Low-amplitude, left vagus nerve stimulation significantly attenuates ventricular dysfunction and infarct size through prevention of mitochondrial dysfunction during acute ischemia-reperfusion injury. *Heart Rhythm* 2013;10(11):1700-7. (2015 Impact factor = 4.391)
3. **Weerateerangkul P**, Surinkaew S, Chattipakorn S, Chattipakorn N. Effects of *Kaempferia parviflora* Wall. Ex. Baker on electrophysiology of the swine hearts. *Indian J Med Res* 2013;137(1):156-163. (2015 Impact Factor = 1.446)
4. Palee S, **Weerateerangkul P**, Chinda K, Chattipakorn S, Chattipakorn N. Mechanisms responsible for beneficial and adverse effects of rosiglitazone in a rat model of acute cardiac ischemia-reperfusion. *Exp Physiol* 2013;98(5):1028-1037. (2015 Impact factor = 2.669)
5. Cheng CC*, **Weerateerangkul P***, Lu YY, Chen YC, Lin YK, Chen SA, Chen YJ. Apelin regulates the electrophysiological characteristics of atrial myocytes. *Eur J Clin Invest* 2013;43(1):34-40. (2015 Impact Factor = 2.687) (*Cheng CC and Weerateerangkul P contributed equally to this study)
6. **Weerateerangkul P**, Palee S, Chinda K, Chattipakorn SC, Chattipakorn N. Effects of *Kaempferia parviflora* Wall. Ex. Baker and sildenafil citrate on cGMP level, cardiac function, and intracellular Ca²⁺ regulation in rat hearts. *J Cardiovasc Pharmacol* 2012;60(3):299-309. (2015 Impact Factor = 2.111)
7. Tsao HM, **Weerateerangkul P**, Chen YC, Kao YH, Lin YK, Huang JH, Chen SA, Chen YJ. Amyloid peptide regulates calcium homeostasis and arrhythmogenesis in pulmonary vein cardiomyocytes. *Eur J Clin Invest* 2012;42(6):589-598. (2015 Impact Factor = 2.687)
8. Palee S, **Weerateerangkul P**, Surinkaew S, Chattipakorn S, Chattipakorn N. Effect of rosiglitazone on cardiac electrophysiology, infarct size and mitochondrial function in

- ischaemia and reperfusion of swine and rat heart. *Exp Physiol* 2011;96(8):778-89. (2015 Impact Factor = 2.669)
9. Kanlop N, Thommasorn S, Palee S, **Weerateerangkul P**, Suwansirikul S, Chattipakorn S, Chattipakorn N. Granulocyte colony-stimulating factor stabilizes cardiac electrophysiology and decreases infarct size during cardiac ischaemic/reperfusion in swine. *Acta Physiol (Oxf)* 2011;202(1):11-20. (2015 Impact Factor = 4.066)
 10. Kanlop N, Shinlapawittayatorn K, Sungnoon R, **Weerateerangkul P**, Chattipakorn S, Chattipakorn N. Cilostazol attenuates ventricular arrhythmia induction and improves defibrillation efficacy in swine. *Can J Physiol Pharmacol* 2010;88(4):422-428. (2015 Impact Factor = 1.77)
 11. **Weerateerangkul P**, Praputpittaya C, Banjerdpongchai R. Effects of ascorbic acid on streptozotocin induced oxidative stress and memory impairment in rats. *J Physiol Biomed Sciences (Thai J Physiol Sci)* 2007;20(2):54-61.

REVIEW ARTICLE

1. **Weerateerangkul P**, Chattipakorn S, Chattipakorn N. Roles of the nitric oxide signaling pathway in cardiac ischemic preconditioning against myocardial ischemia-reperfusion injury. *Med Sci Monit* 2011;17(2):RA44-RA52. (2015 Impact Factor = 1.433)

CONFERENCE PAPERS AND ABSTRACTS

1. Shinlapawittayatorn K, Chinda K, Palee S, Surinkaew S, Thunsiri K, **Weerateerangkul P**, Chattipakorn S, KenKnight BH, Chattipakorn N. Left vagus nerve stimulation significantly attenuates ventricular dysfunction and infarct size through prevention of mitochondrial dysfunction during acute ischemia-reperfusion injury in swine. *J Am Coll Cardiol* 2013. (Impact Factor = 14.292)
2. Palee S, **Weerateerangkul P**, Surinkaew S, Chattipakorn S, Chattipakorn N. Rosiglitazone facilitates the occurrence of ventricular fibrillation and does not prevent mitochondrial dysfunction in ischemic/reperfusion swine heart. *Eur Heart J* 2011;32 (Abstract Supplement):578. (Impact Factor = 10.046)
3. **Weerateerangkul P**, Chattipakorn S, Chattipakorn N. Effects of *Kaempferia parviflora* on the expression of nitric oxide synthase and cGMP level in rat hearts. *Proceeding to the 39th Annual Scientific Meeting of the Physiological Society of Thailand*, Pattaya, Chonburi, Thailand. 2010.
4. **Weerateerangkul P**, Kanlop N, Rutjanaprom W, Chattipakorn S, Chattipakorn N. Nitric oxide signaling may involve in pro-arrhythmic effect of *Kaempferia parviflora*. *EUROPACE* 2009;11:119. (Impact Factor = 1.706)
5. Kanlop N, Rutjanaprom W, **Weerateerangkul P**, Chattipakorn N. Granulocyte colony-stimulating factor (G-CSF) markedly increases ventricular fibrillation threshold by

- reducing vulnerability to arrhythmia in ischemic/reperfusion injury model. *J Am Coll Cardiol* 2009;49:140A. (Impact Factor = 11.438)
6. Kanlop N, Rutjanaprom W, **Weerateerangkul P**, Chattipakorn N. Novel effects of phosphodiesterase-3 inhibitor in the prevention of initiation of ventricular fibrillation and stabilization of myocardial electrophysiology. *Eur Heart J* 2008;29:358. (Impact Factor = 8.917)
 7. **Weerateerangkul P**, Kanlop N, Rutjanaprom W, Chattipakorn N. Effects of *Kaempferia parviflora* on defibrillation efficacy. *Proceeding to the 37th Annual Scientific Meeting of the Physiological Society of Thailand*, Pattaya, Chonburi, Thailand. 2008.
 8. **Weerateerangkul P**, Praputpittaya C, Banjerdpongchai R. Effects of ascorbic acid on streptozotocin induced oxidative stress and memory impairment in rats. *Proceedings 13th Thai Neuroscience Society (TNS) Conference 2007*, Phitsanulok, Thailand. 2007; 34.
 9. **Weerateerangkul P**, Praputpittaya C, Banjerdpongchai R. Effects of ascorbic acid on streptozotocin induced oxidative stress and memory impairment in rats. *Proceeding to the 36th Annual Scientific Meeting of the Physiological Society of Thailand*, Ayudhaya, Thailand. 2007; 91-98.
 10. **Weerateerangkul P**, Ruamkrathok W, Praputpittaya P. Effects of age on cognitive functions as assessed by elevated plus-maze. *Proceeding to the 34th Annual Scientific Meeting of the Physiological Society of Thailand*, Chumporn, Thailand. 2005; 48.
 11. Ruamkrathok W, **Weerateerangkul P**, Praputpittaya C. Effects of brightness on the efficacy of elevated-plus maze in cognitive function study. *Proceeding to the 34th Annual Scientific Meeting of the Physiological Society of Thailand*, Chumporn, Thailand. 2005; 49.

EDUCATIONAL MEDIA

1. Srimaroeng C, **Weerateerangkul P**, Vesessmith K, Sukjun T. Osmolarity, Tonicity and Cell Membrane Permeability. 2022. Faculty of Medicine, Chiang Mai University (Movie)