

CURRICULUM VITAE

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Education:

- 1982 Doctor of Medicine, First class honor. Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand.
1991 Ph.D. in Physiology, Department of Physiology, University of Pennsylvania, Philadelphia, USA.

Awards & Scholarships:

- 1979 Medal of Excellence in Physiology.
1982 Medals of Excellence in Medicine, Obstetrics and Gynecology, and Pediatrics.
1982 Gold medal, granted by the King of Thailand, for achieving best cumulative grade point average of the entire 6-year program.
1984-1989 Royal Thai Government Scholarship (Physiology).
2001 Student Advisor Honor Plaque, presented by the President of Mahidol University.
2002 Outstanding Faculty Member in Preclinical Teaching: Chao Phraya Phra Sadet Surendradhibodi Scholarship, presented by the Dean, Faculty of Medicine Siriraj Hospital, Mahidol University.
2003 Outstanding Faculty Member, presented by the Chair of the Faculty Council, Faculty of Medicine Siriraj Hospital, Mahidol University.
2009 Cerebos Awards, granted by HRH Princess Somsawalee
2020 Pride & Prime Award 2020, Wanglang Wattana Alumni Association

Professional Experience & Positions

- 1982-1983 Rotational intern, Siriraj Hospital, Bangkok.
1983 Instructor, Department of Physiology, Faculty of Medicine Siriraj Hospital, Bangkok.
1984-1991 Graduate student, Department of Physiology, University of Pennsylvania, USA
1985 Laboratory training (3 months) with Prof. Y. E. Goldman, Department of Physiology, University of Pennsylvania:
- Suppression of muscle contraction by vanadate : dual label experiment. (quoted as unpublished data in Dantzig JA and Goldman YE. J Gen Physiol 1986; 86: 305-327.)
- Contraction of vanadate-loaded fibers in low ionic strength, relaxing solution.
1986 Laboratory training (8 months) with Prof. C. M. Armstrong, Department of Physiology, University of Pennsylvania:
- Armstrong CM, Bamrungphol W. The effects of low external calcium concentration on sodium channels closing kinetics in squid giant axons. Biophys J 1987; 51: 9a (abstr.).
1986-1991 Thesis research. Advisor: Prof. C. M. Armstrong

- Calcium currents in chick embryo ventricular myocytes: Effects of dihydropyridine Bay K 8644
- 1991-2023 Head, Cardiovascular Division, Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University
- 1993-present Head, Cardiovascular Autonomic Laboratory, Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University
- 1997 Assistant Professor in Physiology
- 1999-2006 Chair, Physiology Graduate Group, Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University
- 2000-present Head, Cellular Electrophysiology Laboratory, Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University
- 2009-2011 Deputy Head, Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University
- 2011-2019 Head, Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University
- 2018 Associate Professor in Physiology
- 2023 Advisor, Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University

Professional Societies:

1. Physiological Society of Thailand (Executive Secretary, 2008-2012; Registrar, 2012-2018; President, 2018-2020; Advisor 2020-2022)
2. Thai Microcirculation Society (Committee Member, 2006-2019)
3. Medical Association of Thailand, Under Royal Patronage
4. Thai Medical Women's Association, Under the Royal Patronage of Her Majesty the Queen

Research Interest:

1. Endothelial ion channels in health and disease, and in response to herbal extracts/drugs, including related mechanisms
2. Cellular electrophysiology, ion channel physiology, channelopathy, patch clamp technique
3. Vascular function, endothelial signaling and dysfunction, vascular smooth muscle contraction
4. Cardiovascular autonomic function assessment and alteration in disease, heart rate variability, blood pressure variability, baroreflex sensitivity
5. In vivo assessment of microcirculation, nailfold capillaroscopy

Original Articles:

1. [Watanapa WB](#), Watanapa P*. Autonomic Function Test in Patients with Obstructive Jaundice. *Siriraj Hosp Gaz.* 1997; 49: 114-9.
2. Assantachai P*, [Watanapa WB](#), Chiempittayanuvat S, Thipanunt P. Hypertension in the Elderly: A Community Study. *J Med Assoc Thai.* 1998; 81: 243-9.
3. Watanapa P*, [Watanapa WB](#). Liver fluke-associated cholangiocarcinoma. *Br J Surg.* 2002; 89: 962-70. [Impact factor 2002 = 3.444, 2017 = 5.433, Q1]
4. Suwan N*, Chanchairujira T, Ongajyooth L, [Watanapa W](#). Autonomic dysfunction in hemodialysis patients with intradialysis hypotension. *Maharat Nakhon Ratchasima Hosp J.* 2006; 30(2): S31-8. <https://he04.tci-thaijo.org/index.php/MNRHJ/article/view/2036>

5. Limphanudom P, Chierakul N, Pinyopattarakul N, Nana A, Naruman C, Tangchityongsiva S, [Watanapa WB](#), Jenwitheesuk A. Recovery of heart rate variability in patients with moderate to severe obstructive sleep apnea after 6-month continuous positive airway pressure treatment. *J Med Assoc Thai.* 2007; 90(8): 1530-5.
6. Rodthongdee K, [Watanapa WB*](#), Ruamyod K. Effect of tetramethylpyrazine on ionic currents in human coronary artery endothelial cells. *J Physiol Biomed Sci.* 2011; 24(1 suppl): 83-9.
7. [Watanapa WB*](#), Theerathananon W, Akarasereenont P, Techatraisak K. Effects of preeclamptic plasma on potassium currents of human umbilical vein endothelial cells. *Reprod Sci.* 2012; 19(4): 391-9. (Epub 16 Feb 2012; doi: 10.1177/1933719111424434.) [Impact factor 2012 = 2.064, Q2]
8. Bantornwan S, [Watanapa WB](#), Hussarin P, Chatsiricharoenkul S, Larpparisuth N, Teerapornlertrat T*, Vareesangthip J, Vareesangthip K. Role of meditation in reducing sympathetic hyperactivity and improving quality of life in lupus nephritis patients with chronic kidney disease. *J Med Assoc Thai.* 2014; 97(3 Suppl 3): S101-7.
9. Sukrittanon S, [Watanapa WB*](#), Ruamyod K. Ginsenoside Re enhances small-conductance Ca^{2+} -activated K^+ currents in human coronary artery endothelial cells. *Life Sci.* 2014 Oct 12; 115(1-2): 15-21. (Epub 19 Sep 2014; doi: 10.1016/j.lfs.2014.09.007.) [Impact factor 2014 = 2.702, Q2]
10. Ruamyod K, [Watanapa WB*](#), Shayakul C. Characterization of ion channels in human coronary artery endothelial cells. *J Physiol Biomed Sci.* 2015; 28(1): 15-21.
11. Ruamyod K, [Watanapa WB*](#), Shayakul C. Testosterone rapidly increases Ca^{2+} -activated K^+ currents causing hyperpolarization in human coronary artery endothelial cells. *J Steroid Biochem Mol Biol.* 2017 Apr; 168: 118-26. (Epub 20 Feb 2017; doi: 10.1016/j.jsbmb.2017.02.014) [Impact factor 2017 = 4.095, Q1]
12. Nettuwakul C, Praditsap O, Sawasdee N, Rungroj N, Ruamyod K, [Watanapa WB](#), Junking M, Sangnual S, Sritippayawan S, Cheunsuchon B, Chuawattana D, Rojsatapong S, Chaowagul W, Dib-Hajj SD, Waxman SG, Yenchitsomanus P*. Loss-of-function mutations of SCN10A encoding NaV1.8 α subunit of voltage-gated sodium channel in patients with human kidney stone disease. *Sci Rep.* 2018; 8: 10453 (Published online 11 July 2018; doi:10.1038/s41598-018-28623-3) [Impact factor 2018 = 4.011, Q1] Co-author 8%
13. Kaewphaleuk T, [Watanapa WB*](#), Panich U. Ethanol enhances endothelial ionic currents and nitric oxide release via intermediate-conductance calcium-activated potassium channel. *Life Sci.* 2019 Jul 1; 228: 21-29. (Epub 23 Apr 2019; doi: 10.1016/j.lfs.2019.04.052.) [Impact factor 2019 = 3.647, Q2]
14. Panchavinnin P, Wanthong S, Roubasantisuk W, Tresukosol D, Buranakitjaroen P, Chotruangnapa C, [Watanapa W](#), Pongakasira R, Wongpraparut N*. Long-term outcome of renal nerve denervation (RDN) for resistant hypertension. *Hypertens Res.* 2022; 45: 962-6. (Published online 07 Apr 2022; doi:10.1038/s41440-022-00910-7) [Impact factor 2022 = 5.4, Q1] Co-author 2%
15. Ruamyod K, [Watanapa WB*](#), Kakhai C, Nambundit P, Treewaree S, Wongsanupa P. Ferulic acid enhances insulin secretion by potentiating L-type Ca^{2+} channel activation. *J Integr Med.* 2023; 21(1): 99-105. (Epub 23 Nov 2022; doi: 10.1016/j.joim.2022.11.003) [Impact factor 2023 = 4.2, Q1]
16. Somboon P, Kulapatana S, [Watanapa WB*](#), Chattaris T, Sirivongrangson P, Livikorn P, Nonthadid T, Hussarin P. Heart rate variability and baroreflex sensitivity: factors

- and reference ranges. *Siriraj Med J* 2023;75(10):723-34. doi: 10.33192/smj.v75i10.264037 [Impact factor SJR 2023 = 0.18, Q4]
17. Tipcome K, [Watanapa WB*](#), Ruamyod K. Hesperetin relaxes depolarizing contraction in human umbilical vein by inhibiting L-type Ca²⁺ channel. *Chin J Integr Med*. 2024; doi: 10.1007/s11655-024-3713-1 [Impact factor 2022 = 2.9, Q1; 2024 = 2.5, Q2]
 18. Theerathananon W, [Watanapa WB*](#), Wataganara T, Pratumvinit B, Rahman S. Preeclamptic serum and soluble fms-like tyrosine kinase-1 suppress endothelial inward rectifier potassium currents. *Placenta*. 2024 Feb; 146: 101-109. (Published online 11 Jan 2024; doi: 10.1016/j.placenta.2024.01.002) [Impact factor 2023 = 3.0, 2024 = 2.5, Q1]
 19. Kulapatana S*, Diedrich A, Lersritwimanmaen P, [Watanapa WB](#). Postural orthostatic tachycardia syndrome in a Thai male patient. *Clin Auton Res*. 2024; doi: 10.1007/s10286-024-01044-1 [Impact factor 2024 = 3.4, Q1] Co-author 15%
 20. Nambundit P, Ruamyod K, [Watanapa WB*](#). Effect of andrographolide on pancreatic beta cell survival in high glucose condition. *Siriraj Med Bull*. 2024;17(4):273-80. doi: 10.33192/smb.v17i4.268660
 21. Rodthongdee K, [Watanapa WB](#), Ruamyod K, Semprasert N, Nambundit P, Kooptiwut S, Boontaveekul L*. Ginsenoside Re increases human coronary artery endothelial SKCa current and nitric oxide release via glucocorticoid receptor-PI3K-Akt/PKB pathway. *J Ginseng Res*. 2025 Sep;49(5):523-31. Epub 2025 Apr 29. doi: 10.1016/j.jgr.2025.04.008 [Impact factor 2023 = 6.8, 2024 = 5.6, Q1, Top 3] Co-author 27%

Full Articles in Proceedings:

22. Raviwongse R*, Assawasantakul W, [Watanapa WB](#). An Intelligent Fuzzy-Based System for Paroxysmal Atrial Tachycardia Identification. Proceedings of Artificial Neural Networks in Engineering Conference (ANNIE 2001), November 4-7, 2001, Marriott Pavilion Hotel, St Louis, Missouri. In: *Intelligent Engineering Systems Through Artificial Neural Networks*; 11: 295-300. (Full paper)
23. Samasilp P, [Watanapa WB*](#), Wongkajornsilp A, Watanapa P. Characterization of ionic currents in Thai cholangiocarcinoma cell lines. 30th Congress on Science and Technology of Thailand, October 19-21, 2004, Impact Exhibition and Convention Center, Bangkok, Thailand, H0023. (Full paper)
24. Rayakaew N, Charoensuk W*, [Watanapa WB](#). Development of software for testing human autonomic nervous system and ECG classification. Proceedings of the International Symposium on Biomedical Engineering/Symposium on Thai Biomedical Engineering (ISBME/ThaiBME 2008), November 10-11, 2008, the Grand Mercure Fortune Hotel Bangkok, Thailand. (Full paper)
25. Vongsaiyat S, Pummoung S, Phattharayuttawat S, Kooptiwut S, [Watanapa WB](#), Chearskul S*. Effect of daily stress on plasma adiponectin, salivary cortisol and eating behavior in non-obese Thai women. 35th Congress on Science and Technology of Thailand, October 15-17, 2009, Burapha University, Chonburi, Thailand, I_I0016. (Full paper)
26. Pummoung S, Vongsaiyat S, Phattharayuttawat S, Kooptiwut S, [Watanapa WB](#), Chearskul S*. Effect of daily stress on plasma active ghrelin, salivary cortisol and eating behavior in obese Thai women. 35th Congress on Science and Technology of Thailand, October 15-17, 2009, Burapha University, Chonburi, Thailand, I_I0017. (Full paper)
27. Thongsepee N, Boontaveekul L*, Slisatkorn W, Kittipovanonth P, Prakanrattana U, [Watanapa WB](#). Levels of sVCAM-1 in coronary artery disease patients undergoing

- coronary artery bypass graft surgery with and without perioperative myocardial infarction. Proceedings of the 39th Physiological Society of Thailand Annual Meeting, May 5-8, 2010; 176-82. (Full paper)
28. Paebua W, Boontaveekul L*, Tilokskulchai K, [Watanapa WB](#), Uawithya P. Intracellular effects of 6-gingerol on α_1 adrenergic stimulation in isolated rat thoracic aorta. Proceedings of the 39th Physiological Society of Thailand Annual Meeting, May 5-8, 2010; 183-6. (Full paper)
29. Somboon P, [Watanapa WB*](#), Chattaris T, Sirivongrangson P, Livikorn P, Nonthadid T, Hussarin P. Factors affecting heart rate variability in healthy Thais. Proceeding of Graduate Research Forum 2016. An Academic Conference for Graduate Students in Faculty of Medicine Siriraj Hospital, MU, In Siriraj International Conference in Medicine and Public Health [SICMPH 2016], June 13-15, 2016; 213-30. (Full paper)
30. Aung KP, [Watanapa WB](#), Chatchavalvanich S*. Testosterone dose-dependently induces nitric oxide release in human coronary artery endothelial cells. Proceeding of Graduate Research Forum 2017. An Academic Conference for Graduate Students, May 26 and 29, 2017; 1-8. (Full paper)
31. Taokum P, [Watanapa WB*](#), Ruamyod K, Tapechum S. Mechanism of bilobalide-enhanced SK_{Ca} current in human coronary artery endothelial cells. Proceeding of Graduate Research Forum 2021. Faculty of Medicine Siriraj Hospital, Mahidol University, May 18 and 25, 2021; 118-29. (Full paper)

Abstracts/Presentations:

32. Armstrong CM, [Bamrungphol W](#). External calcium and the closing of sodium channels in squid giant axons. Biol Bull. 1986; 171: 489. *Oral presentation*
33. Armstrong CM, [Bamrungphol W](#). The effects of low external calcium concentration on sodium channels closing kinetics in squid giant axons. Biophys J. 1987; 51: 9a. *Poster*
34. [Bamrungphol-Watanapa W](#), Armstrong CM. Calcium channels in chick embryo ventricular myocytes. Biophys J. 1989; 55: 305a. *Poster*
35. [Bamrungphol-Watanapa W](#), Armstrong CM. Calcium channel inactivation induced by DHP agonists is not prevented by blocking the current entry with cadmium. Biophys J. 1990; 57: 528a. *Poster*
36. [Watanapa WB*](#), Pokathip S, Wanachiwanawin W, Fucharoen S, Puripunyo K. Cardiovascular autonomic functions in thalassemic patients. Abstracts of the XXXII Congress of the International Union of Physiological Sciences, Glasgow, August 1-6, 1993. *Poster*
37. Nonthadid T, [Watanapa WB*](#). Cardiovascular autonomic function tests in Thai Normal Subjects. Mahidol University Annual Research Abstracts 1995, Bangkok, p. 226.
38. Sanuan S, [Watanapa WB*](#), Nimmannit S, Chaovakul V. Comparison of cardiovascular autonomic responses in hypokalemia-related patients and normokalemic subjects in northeastern Thailand. Mahidol University Annual Research Abstracts 1995, Bangkok, p. 227.
39. [Watanapa WB*](#), Boontaveekul L, Supakitamorephan C. Computer-aided ECG monitoring. Mahidol University Annual Research Abstracts 1995, Bangkok, p. 229.
40. [Watanapa WB*](#), Chiempittayanuvat S, Assantachai P. Orthostatic hypotension in the ambulatory elderly. Mahidol University Annual Research Abstracts 1996, Bangkok, p. 221.

41. [Watanapa WB*](#), Kalpravidh RW, Srirojanakul W, Suwanasre M, Khanchai W, Surinwong N, et al. Safety in the Siriraj community. Siriraj Scientific Congress, Faculty of Medicine Siriraj Hospital, March 5-9, 2001; 164-5.
42. [Watanapa WB*](#), Boonthong D, Akarasereenont P, Techatrisak K. Potassium channels in human umbilical vein endothelial cells. Siriraj Scientific Congress, Faculty of Medicine Siriraj Hospital, March 4-8, 2002; 243-4.
43. Naiyanetr P, [Watanapa WB](#), Wongrujira K. A program for cardiovascular autonomic function test. Siriraj Scientific Congress, Faculty of Medicine Siriraj Hospital, March 4-8, 2002; 245-6.
44. [Watanapa WB*](#), Rotejanarat N, Buranakitjaroen P. Cardiovascular autonomic responses of normotensive humans with parental hypertension. Siriraj Scientific Congress, Faculty of Medicine Siriraj Hospital, March 4-8, 2002; 260-1.
45. Suwan N, Chanchairujira T, Krittaphong R, [Watanapa WB](#), Ongajyooth L*. Autonomic dysfunction in hemodialysis patients with intradialysis hypotension. Int Med J Thailand 2003; 19(2 suppl): 73.
46. [Watanapa WB*](#), Chanwongse K, Akarasereenont P, Techatrisak K. Comparison of endothelial K channels in preeclampsia and normal pregnancy. Siriraj Hosp Gaz. 2003; 55(suppl 1): 173-174.
47. [Watanapa WB*](#), Theerathananon W, Akarasereenont P, Techatrisak K. Effect of plasma from preeclampsia patients on potassium currents of human umbilical vein endothelial cells. [on CD-ROM or accessed at <http://select.biosis.org/faseb>]. FASEB J 2005; 19: Abstract #918.14.
48. Samasilp P, [Watanapa WB*](#), Wongkajornsilp A, Watanapa P. Characterization of ionic currents in Thai cholangiocarcinoma cell lines. Siriraj Med J. 2005; 57(suppl 1): 36.
49. Kaewmahanin W, Boontaveekul L*, [Watanapa WB](#), Thongchareon P. Time-course study of soluble VCAM-1 in cardiac surgical patients undergoing operations using cardiopulmonary bypass technique. Siriraj Med J. 2006; 58(Suppl.1): 27.
50. Pinyopattarakul N, Chierakul N, Nana A, [Watanapa WB](#), Jenwitheesuk A. The effect of continuous positive airway pressure treatment on autonomic nervous system activity in patients with moderate to severe obstructive sleep apnea. Siriraj Med J. 2006; 58(Suppl.1): 170.
51. Kaewmahanin W, Boontaveekul L*, [Watanapa WB](#), Thongchareon P. Time-course study of soluble E-selectin in cardiac surgical patients undergoing cardiopulmonary bypass technique. Abstracts of the 35th Annual Conference of The Physiological Society of Thailand, Chiang Mai, May 3-5, 2006; 4.
52. [Watanapa WB*](#), Kakhai C, Poomvanicha M, Kooptiwut S, Semprasert N, Huabprasert S, Churintaraphan M, Wongkajornsilp A. Whole-cell patch clamp study of barium currents in isolated pancreatic beta cells. Siriraj Med J. 2007; 59(Suppl.1): 30.
53. Jenwitheesuk A, [Watanapa WB*](#), Techatrisak K. Cardiovascular autonomic function tests in Thai postmenopausal women. Siriraj Med J. 2007; 59(Suppl.1): 41.
54. Poomvanicha M, Kakhai C, Huabprasert S, Kooptiwut S, Semprasert N, Churintaraphan M, Wongkajornsilp A, [Watanapa WB*](#). Acute effects of testosterone on L-type calcium current in mouse pancreatic beta cells. Abstracts of the 36th Annual Conference of The Physiological Society of Thailand, Ayudhaya, April 25-27, 2007; 53.
55. Jenwitheesuk A, [Watanapa WB*](#), Techatrisak K. Cardiovascular autonomic function tests and metabolic syndrome in Thai postmenopausal women. Abstracts of the 36th Annual Conference of The Physiological Society of Thailand, Ayudhaya, April 25-27, 2007; 65.

56. Kakhai C, Poomvanicha M, Huabprasert S, Kooptiwut S, Semprasert N, Churintaraphan M, Wongkajornsilp A, [Watanapa WB*](#). Acute effects of ethanol on L-type calcium current in mouse pancreatic beta cells. Abstracts of the 36th Annual Conference of The Physiological Society of Thailand, Ayudhaya, April 25-27, 2007; 70. *Poster*
57. Kirakul A, Vareesangthip K, Sritippayawan S, Kiattisunthorn K, Vasuvattakul S, Cheunsuchon B, Parichatikanond P, Tanterdtham J, [Watanapa WB](#). Causes of proteinuria in thai patients with type 2 diabetes mellitus. Abstracts of the World Congress of Nephrology, Milan, Italy, May 22-26 2009. (NDT Plus. 2009; 2(suppl 2): ii309- doi: 10.1093/ndtplus/2.s2.45).
58. Ruamyod K, [Watanapa WB*](#), Shayakul C. Characterization of ion channels in human coronary artery endothelial cells. Abstracts of the 39th Annual Conference of The Physiological Society of Thailand, Pattaya, May 5-8, 2010; 120. *Poster*
59. [Watanapa WB*](#). Endothelial ion channels: Emerging therapeutic target. J Physiol Biomed Sci. 2011; 24(1 suppl): 38. (Proceedings of the 40th Annual Scientific Meeting of the Physiological Society of Thailand, Khon Kaen, May 2-4, 2011; 38.) *Oral presentaiton*
60. Sukrittanon S, [Watanapa WB*](#), Ruamyod K. Effect of ginsenoside Re on whole-cell currents of human coronary artery endothelial cells. J Physiol Biomed Sci. 2011; 24(1 suppl): 112. (Proceedings of the 40th Annual Scientific Meeting of the Physiological Society of Thailand, Khon Kaen, May 2-4, 2011; 112.) *Oral presentaiton*
61. [Watanapa WB*](#), Phakdeekitcharoen B, Shayakul C, Ruamyod K, Kaewkukul N, Kittikanokrat W. Functional study of a novel gene mutation causing hypokalemic periodic paralysis. Abstracts of the 7th Congress of the Federation of Asian and Oceanian Physiological Societies, Taipei, September 11-14, 2011; 102. *Oral presentaiton*
62. Ruamyod K, [Watanapa WB*](#), Shayakul C. Ionic currents of human coronary artery endothelial cells are increased by testosterone. Abstracts of the 7th Congress of the Federation of Asian and Oceanian Physiological Societies, Taipei, September 11-14, 2011; 242. *Oral presentaiton*
63. [Watanapa WB*](#). Endothelial ion channels: Roles and therapeutic implication. Abstracts of the 8th Asian Congress for Microcirculation, Bangkok, October 26-28, 2011; 105. *Symposium speaker*
64. Charoenpornasawat T, [Watanapa WB*](#). Acute Ethanol Effects on Whole-Cell Currents in Human Coronary Artery Endothelial Cells. Graduate Research Forum 2012. In: Siriraj International Conference in Medicine and Public Health 2012, Faculty of Medicine Siriraj Hospital, MU, Bangkok, September 18, 2012; G. *Poster*
65. Theerathananon W, [Watanapa WB*](#), Wataganara T. Development of freshly dissociated human umbilical vein endothelial cell preparation for electrophysiological studies. J Physiol Biomed Sci. 2013; 26: 49. (Proceedings of the 42nd Annual Scientific Meeting of the Physiological Society of Thailand, Phetchaburi, April 24-26, 2013; 49.) *Poster*
66. Tipcome K, Nilanont Y, [Watanapa WB*](#). Autonomic dysfunction following acute stroke: a preliminary study. J Physiol Biomed Sci. 2013; 26: 53. (Proceedings of the 42nd Annual Scientific Meeting of the Physiological Society of Thailand, Phetchaburi, April 24-26, 2013; 53.) *Poster*
67. Tipcome K, [Watanapa WB*](#). Development of human umbilical vein preparation for isometric tension recording. Siriraj Med J. 2013; 65(3): A23. (International Conference in Medicine and Public Health [ICMPH] 2013: Healthy Society Beyond

- Frontiers, Faculty of Medicine Siriraj Hospital, Mahidol University, June 24-28, 2013. [RS-068]) *Poster*
68. Ruamyod K, [Watanapa WB*](#), Shayakul C, Tapechum S, Uawithya P. Effect of testosterone on ionic currents in human coronary artery endothelial cells. *Siriraj Med J.* 2013; 65(3): A4. (International Conference in Medicine and Public Health [ICMPH] 2013: Healthy Society Beyond Frontiers, Faculty of Medicine Siriraj Hospital, Mahidol University, June 24-28, 2013. [RS-007]) *Oral presentation*
 69. Somboon P, [Watanapa WB*](#). Normal values of heart rate variability and baroreflex sensitivity in Thais. *Siriraj Med J.* 2013; 65(3): A24. (International Conference in Medicine and Public Health [ICMPH] 2013: Healthy Society Beyond Frontiers, Faculty of Medicine Siriraj Hospital, Mahidol University, June 24-28, 2013. [RS-075]) *Poster*
 70. Theerathananon W, [Watanapa WB*](#), Wataganara T. Fresh isolation of human umbilical vein endothelial cells for electrophysiological studies. *Siriraj Med J.* 2013; 65(3): A20. (International Conference in Medicine and Public Health [ICMPH] 2013: Healthy Society Beyond Frontiers, Faculty of Medicine Siriraj Hospital, Mahidol University, June 24-28, 2013. [RS-057]) *Poster*
 71. Ruamyod K, [Watanapa WB*](#), Shayakul C. Rapid androgen effects on potassium channels in human artery coronary endothelial cell. *Proceedings of the 37th Congress of the International Union of Physiological Sciences, Birmingham, UK, July 21-26, 2013; 441P (PCA398).* *Poster*
 72. [Watanapa WB*](#), Wongsatan T, Ruamyod K. Bilobalide enhances coronary artery endothelial potassium currents. *Proceedings of the 37th Congress of the International Union of Physiological Sciences, Birmingham, UK, July 21-26, 2013; 432P (PCA382).* *Poster*
 73. Taokum P, [Watanapa WB*](#), Tapechum S. Preliminary Study on bilobalide-induced whole-cell SKCa current in human coronary artery endothelial cells. *Graduate Research Forum 2014.* In: *Siriraj International Conference in Medicine and Public Health 2014, Faculty of Medicine Siriraj Hospital, MU, Bangkok, July 15, 2014; G.* *Poster*
 74. [Watanapa WB*](#). Endothelial potassium channel in health and disease. *The 5th Annual Symposium of Tzu Chi Academy. Frontier of Medical Science: From Translational Medicine to Epidemiology. Tzu Chi University, Taiwan, Republic of China. September 11, 2015. Symposium speaker*
 75. Kaewphaleuk T, [Watanapa WB*](#). Acute ethanol increased whole-cell currents via an adenosine receptor in human coronary artery endothelial cells. *J Physiol Sci.* 2015; 65(Suppl2): S-A125. 8th Congress, Federation of Asian and Oceanian Physiology Societies, November 22-25, 2015, Bangkok, Thailand. *Poster*
 76. Taokum P, [Watanapa WB*](#), Ruamyod K. Bilobalide-induced SKCa current increase in human coronary artery endothelial cells is mediated by 5-HT_{1/2} receptor and PLC. *J Physiol Sci.* 2015; 65(Suppl2): S-A126. 8th Congress, Federation of Asian and Oceanian Physiology Societies, November 22-25, 2015, Bangkok, Thailand. *Poster*
 77. Tipcome K, [Watanapa WB*](#). Hesperetin-induced vasorelaxation in human umbilical vein preparation. *J Physiol Sci.* 2015; 65(Suppl2): S-A129. 8th Congress, Federation of Asian and Oceanian Physiology Societies, November 22-25, 2015, Bangkok, Thailand. *Poster*
 78. Ruamyod K, [Watanapa WB](#), Praditsap O, Nettuwakul C, Sangnual S, Rungroj N, Sawasdee N, Yenchitsomanus P*. Functional study of novel NaV1.8 mutations causing kidney stone disease in a northeastern Thai family. *J Physiol Sci.* 2015; 65(Suppl2): S-A195. 8th Congress, Federation of Asian and Oceanian Physiology Societies, November 22-25, 2015, Bangkok, Thailand. *Poster*

79. Aung KP, [Watanapa WB](#), Chatchavalvanich S*. Testosterone Dose-Dependently Induces Nitric Oxide Release in Human Coronary Artery Endothelial Cells. Graduate Research Forum 2017, Faculty of Medicine Siriraj Hospital, Mahidol University May 26 and 29, 2017. [G2-05] *Poster, selected for oral presentation*
80. Ruamyod K, [Watanapa WB*](#), Shayakul C. Effect of testosterone on ionic currents in human coronary artery endothelial cells. Proceedings of the 45th Annual Scientific Meeting of the Physiological Society of Thailand, Khon Kaen, December 6-8, 2017; 25. [O5] *Oral presentation; Dithi Chungcharoen Award, for Best Oral Presentation of a PhD Thesis Research.*
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