

Assoc.Prof.Dr. Amporn Jariyapongskul

Office: Department of Physiology, Faculty of Medicine,
Srinakharinwirot University, Bangkok, Thailand 10110

E-mail: amporma@swu.ac.th, amporma@g.swu.ac.th

Education:

- 2000 PhD (Physiology), Faculty of Medicine,
Chulalongkorn University, Thailand
- 1997 MSc (Physiology) Faculty of Medicine,
Chulalongkorn University, Thailand
- 1987 BSc (Nursing) Thai Red Cross Nursing Colleague, Bangkok, Thailand

Training/postdoctoral training

- 1997-1998 Microcirculation unit at National Cardiovascular Research Institute, Osaka, Japan
- 2008-2009 Cerebral Microcirculation unit at Department of Cellular & Integrative Physiology,
University of Nebraska, Medical Center, Omaha, USA

Awards:

- 1995 Young Investigator Award” at the 2nd Asian Congress for Microcirculation (Beijing, China)
- 2001 Outstanding Presentation Award (Biomedical Science) at 2nd Congress for Graduate Meeting
- 2008 Outstanding Presentation Award” at the 7th Asian Congress for Microcirculation (Taian, China).
- 2012 Outstanding pre-clinical instructor, Faculty of Medicine, Srinakharinwirot University
- 2015 Outstanding Publication 2015, Faculty of Medicine, Srinakharinwirot University.

Working experiences:

- 2020-Present Associate Dean for Preclinical Administration and Academic Affairs, Faculty of Medicine, Srinakharinwirot University
- 2019-2020 Head of Physiology Department, Faculty of Medicine, Srinakharinwirot University
- 2015-2019 Chairperson of Graduate Studies in Biomedical Science Program, Faculty of Medicine, Srinakharinwirot University
- 2011-2013 Assistant Dean in Academic Affair (Preclinic) of Faculty of Medicine, Srinakharinwirot University

Membership:

1. The Physiological Society of Thailand (PST)
2. Thai Society for microcirculation

Ongoing Research

Cerebral and retinal microcirculation in type 2 diabetes mellitus

In Vivo and In Vitro Studies in experimental model for cancer research

Publications:

1. **Jariyapongskul A**, Niimi H , Patumraj S. Cerebral microcirculation response to hemorrhagic hypotension in spontaneously diabetic rats: an intravital fluorescence microscopic analysis. Proc The Sixth World Congress for Microcirculation, Monduzzi Editores S.p.A 1996:977-982.
2. Niimi H, **Jariyapongskul A**, and Minamino N. Vasodilatory response of Adrenomedullin on rat cerebral arterioles: an intravital microscopic analysis. Proc The Sixth World Congress for Microcirculation, Monduzzi Editores S.p.A 1996:709-712.
3. **Jariyapongskul A**, Niimi H , Kasantikul V, Maneesri S, Patumraj S. Morphological changes of cerebral microcirculation in streptozotocin-induced diabetic rats; pilot studies of in vivo fluorescence and electron microscopy. Proc The Third Asian Congress for Microcirculation, Monduzzi Editores S.p.A Bologna (Italy) 1997:239-245.
4. Kasantikul V, **Jariyapongskul A**, Patumraj S. Computer-assisted image analysis of microvasculature in benign and malignant gliomas: Proc The Third Asian Congress for Microcirculation, Monduzzi Editores S.p.A Bologna (Italy) 1997:61-66.

5. Somboonwong J, Thanamittramane S, **Jariyapongskul A**, Patumraj S. Therapeutic effects of Aloe vera on cutaneous microcirculation and Wound healing in second burn model in Rats. *J Med Assoc Thai* 2000;83:417-425.
6. Patumraj S, Tewit S, Amatayakul S, Maneesri S, **Jariyapongskul A**, Kasantikul V, Shepro D. Comparative effects of Garlic and Aspirin on diabetic Cardiovascular complication. *Drug Delivery* 2000;7:1-6.
7. **Jariyapongskul A**, Patumraj S, Yamaguchi S, Niimi H. The effect of long-term supplementation of vitamin C on leukocyte adhesion to the cerebral endothelium in STZ-induced diabetic rats. *Clinical Hemorrhological and Microcirculation* 2002;27(1):67-76.
8. **Jariyapongskul A**, Nakano a, Yamaguchi S, Nageswari K, Niimi H. Maturity of pericytes in cerebral neocapillaries induced by growth factors: fluorescence immuno-histochemical analysis using confocal laser microscopy. *Clinical Hemorrhological and Microcirculation* 2003;29 (3-4):417-21.
9. **Jariyapongskul A**, Patumraj S, Niimi H. Cerebral endothelial dysfunction in diabetes: intravital microscopic analysis using streptozotocin-induced diabetic rats. *Clinical Hemorrhological and Microcirculation* 2003;29(3-4):331-5.
10. **Jariyapongskul A**, Pathumraj S, and Niimi H. Effects of Yahom on the regional cerebral blood flow in rat using fluorescence videomicroscopy. *Clinical Hemorrhological and Microcirculation* 2006;34 :139-144.
11. **Jariyapongskul A**, Rungjaroen T, Kasetsuwan N, Pathumraj S, and Niimi H. Chronic changes of the iris microvasculature of streptozotocin-induced diabetic rats using fluorescence videomicroscopy. *Clinical Hemorrhological and Microcirculation* 2006;34 :283-293.
12. **Jariyapongskul A**, Rungjaroen T, Kasetsuwan N, Patumraj S, Seki J, Niimi H. Long-term effects of oral vitamin C supplementation on the endothelial dysfunction in the iris microvessels of diabetic rats. *Microvascular Research* 2007;74:32-38.
13. **Jariyapongskul A**, Yamaguchi S, Patumraj S. Long-term effects of oral vitamin C administration improves cerebral microvascular vasodilatory impairment in diabetes: in vivo evidence using diabetic rats. *Asian Biomed.* 2007;1:159-166.
14. **Jariyapongskul A**, Patumraj S, Suksumrarn A. Long-term effect of tetrahydrocurcumin supplementation on cerebral blood flow and endothelial cells in streptozotocin-induced diabetic rats. *Asian Biomed.* 2008;2:151-5.
15. Montree Udompataikul, Montri Wongniraspai, Udomsri Showpittapornchai, **Amporn Jariyapongskul**. The study on effects and safety of Spongillalacustris in 3% hydrogen peroxide solution on rat skin. *J Med Assoc Thai.* 2012;S15-S2015.

16. Ussawawongaraya W, Spilles N, Nilwarangkoon S, **Jariyapongskul A**. The correlation of parathyroid hormone and heart rate variability in CAPD patients. J Med Assoc Thai. 2013;S595-S602.
17. Ussawawongaraya W, Woraratsoontorn P, Nilwarangkoon S, **Jariyapongskul A**. The correlation of heart rate variability with parathyroid hormone in hemodialysis patients with secondary hyperparathyroidism. Thammasat Medical Journal 2014;14:153-161.
18. **Amporn Jariyapongskul**, Chonticha Areebambud, SunitSuksamrang, and Chantana Mekseepralard. Alpha-Mangostin Attenuation of Hyperglycemia-Induced Ocular Hypoperfusion and Blood Retinal Barrier Leakage in the Early Stage of Type 2 Diabetes Rats. BioMed Research International 2015; ArticleID785826.
19. Sudarut Rongpan, Therdkiat Trongwongsa, Benjamas Wongsatayanon Thanomsub, **Amporn Jariyapongskul**. Effect of monoolein on inhibition of tumor growth in cervical cancer xenografts in nude mice. Journal of Medicine and Health Sciences 2015;
20. Chantana Mekseepralard ,Chonticha Areebambud , Sunit Suksamrarn, **Amporn Jariyapongskul**. Effect of long-term alpha-mangostin supplementation on hyperglycemia and insulin resistance in type 2 diabetic rats induced by high fat diet and low dose streptozotocin 2015; 98 Suppl.10 :S29-S36.
21. Thongsaard W, **Jariyapongskul A**, Areebambud C. Effect of Thunbergialaurifolia extract on cerebral blood flow in rats. J Med Assoc Thai 2017;S13-18.
22. **Jariyapongskul A**, Areebambud C , Hideyuki N. Microhemodynamic indices to evaluate the effectiveness of herbal medicine in diabetes: A comparison between alpha-mangostin and curcumin in the retina of type 2 diabetic rats. Clinical Hemorheology and Microcirculation [10 Jan 2018]. DOI: 10.3233/CH-170345
23. Suwan S Thirawarapan, **Amporn Jariyapongsakul**, Wisuda Suvitayavat, Sompong Muangnongwa, Arunya Sribusarakum. Anti-hypertensive and cerebral blood flow improving actions of Centellaasiatica (L.) Urban leaves juice in deoxycorticosterone acetate-salt hypertensive rats. Pharm Sci Asia 2019; 46 (3), 184-192 DOI: 10.29090/psa.2019.03.018.0002
24. Chonticha Wongchaiya, Chonticha Areebambud, Nontapat Benjatham, **Amporn Jariyapongskul**. Effect of Pomelo crude extract (Thong Dee cultivar)on insulin resistance and cognitive impairment in type 2 diabetic rats.J Med Health Sci Vol.27 No.1 April 2020
25. Benjathum N, Adam A, Mekseepralard C, Rungsiwiwut R, and **Jariyapongskul A**. Naringin Attenuates Leukocyte Adhesion to Cerebral Endothelium in Type 2 Diabetic Rats. J Med Assoc Thai 2022; 105 (1):115-123