

Curriculum Vitae

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EDUCATION

1995-1999 B.Sc. (Nursing), Mahidol University, Thailand
1999-2002 M.Sc. (Physiology), Chulalongkorn University, Bangkok, Thailand
2008-2017 Ph.D. (Physiology), Kagawa University, Kagawa, Japan

SPECIAL TRAINING

2005-2006 Research Fellows at the Jefferson Headache Center, Thomas Jefferson
University, Philadelphia, USA

HONORS AND AWARDS

2008-2015 JSPS Ronpaku fellow, Department of Cell Physiology, Faculty of Medicine,
Kagawa University, Kagawa, Japan
2017 The JICA partnership program, Collaboration project, Kagawa University,
Kagawa, Japan
2018 The Physiological Society of Japan, Travel award for annual meeting, Kagawa,
Japan

PROFESSIONAL APPOINTMENT

- 2002-2016 Instructor, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- 2016-present Assistant Professor, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

ORGANIZATION AND PARTICIPATION

- 2001-present Thai Microcirculation society, Thailand
- 2004-present The Northern Neuroscience Center, Thailand
- 2008-present Japan Society for the Promotion of Science, Japan
- 2015-present Thai Headache Society, Thailand

PROFESSIONAL ACTIVITIES

Critical Reviewer of Manuscripts for:

Siriraj Medical Journal; Manuscript No: 09-014, Title: Impaired systemic fibrinolysis, nitric oxide level and electrical stimulation treatment in healthy rats after permanent right carotid artery occlusion.

PRESENTATIONS AT NATIONAL MEETINGS

- December 2001 “Further evidence supporting role of nitric oxide in cortical spreading depression-evoked cerebral hyperemia” at the 3rd Thai Microcirculation annual meeting, Bangkok, Thailand
- August 2001 “Microvascular response to cortical spreading depression” at the Thai Microcirculation meeting: Role of Microcirculation in Different Pathogenesis, Bangkok, Thailand

PRESENTATIONS AT INTERNATIONAL MEETINGS

- March 2018 “Effect of Botulinum Toxin Type A on the Activation of Trigeminovascular Nociceptive System” at the 95th Annual Meeting of the Physiological Society of Japan, Kagawa, Japan
- February 2017 The 6th International Graduate Research Conference 2017, Chiang Mai
- June 2002 “Nitric oxide is responsible for cerebral microvascular changes during cortical spreading depression” at the 6th European Headache Federation Congress, Istanbul, Turkey

INVITED LECTURES AT NATIONAL MEETINGS

- May 2018 “From bench to bedside: Basic migraine pathophysiology” at Migraine preceptor ship 2018, Chiang Mai, Thailand
- December 2016 “Migraine: From mechanism to treatment” at the Chiang Mai Headache Winter Conference 2016, Chiang Mai, Thailand

ACADEMIC ACTIVITIES

Special Academic Appointments

2018-Present Graduate School Faculty, Chiang Mai University, Chiang Mai,
Thailand

RESEARCH GRANT SUPPORT

2018-2020 Faculty of Medicine Endowment Fund for Research. Project Title
“Effect of high-fat diet on brain-derived neurotrophic factor” (Co-
Investigator).

PREVIOUS GRANT SUPPORT

2014-2015 Faculty of Medicine Endowment Fund for Research. Project Title
“Analgesic effect of *Leucaena leucophala* in rat”

2016-2017 Faculty of Medicine Endowment Fund for Research. Project Title
“Anxiety-related behaviors in rats fed with high-fat diet” (Co-
Investigator).

2017-2018 Faculty of Medicine Endowment Fund for Research. Project Title
“Hypothalamic-pituitary-adrenal axis dysfunction mediates depression-
like behaviors induced by high-fat diet in rats” (Co-Investigator).

2018-2019 Faculty of Medicine Endowment Fund for Research. Project Title “The
role of antioxidant in depression-like behaviors induced by high-fat diet
in rats”

RESEARCH FIELDS OF INTEREST

1. Migraine Headache
2. Microcirculation
3. Neurophysiology
4. Neuromuscular physiology

PEER REVIEWED ARTICLES

1. J. Pleumsamran, A. Pleumsamran, S.M. le Grand, S. Chankrachang, F. Yamaguchi, K. Kamitori, A. Hossian, C. Noguchi, L. Sui, A. Katagi, Y. Dong, and M. Tokuda, *The Role of Calcitonin Gene-Related Peptide in Migraine Prevention by Botulinum Toxin Type A*, *Neurology Asia*, 2018. 23, 1.
2. J. Ruanpang, A. Pleumsamran, J. Pleumsamran, and S. Mingmalairak, *Effect of a High-Fat Diet and Cholesterol Levels on Depression-like Behavior in Mice*, *Chiang Mai University Journal of Natural Sciences*, 2018. 17, 2.
3. J. Pleumsamran, H. Ronran, S.M. le Grand, S. Mingmalairak and A. Pleumsamran, *Effect of Alpha Lipoic Acid on Hyperemia and Trigeminovascular Nociceptive Activity Induced by Cortical Spreading Depression*, *Chiang Mai Med. J.*, 2015. 54, 4.
4. S. Maneesri, W. Supornsilchai, C. Saengiaroentham, J. Pleumsamran, A. Srikiatkachorn. *Effect of serotonin depletion on cortical spreading depression evoked cerebrovascular changes*. *Asian Biomedicine* Vol.4 No.5 October 2010; 731-738.
5. C. Praputpittaya, J. Pleumsamran, A. Duangjai. *Electromagnetic radiation from mobile phone causes no oxidative stress to the brain*. *Asian Biomedicine* Vol. 2 No. 6 December 2008; 507-510.
6. S. Maneesri, J. Pattamanont, S. Patumraj, A. Srikiatkachorn. *Cortical spreading depression, meningeal inflammation and trigeminal nociception*. *Neuroreport* 2004; 15(10): 1623-7.

PEER REVIEWED ABSTRACTS

1. J. Pleumsamran, A. Pleumsamran, S.M. le Grand, S. Chankrachang, M. Tokuda, *Effect of Botulinum Toxin Type A on the Activation of Trigeminovascular Nociceptive System*, *The Journal of Physiological Sciences*, 2018. 68, supplement 1.
2. J. Ruanpang, S. Mingmalairak, J. Pleumsamran, and A. Pleumsamran, *Effect of Rosuvastatin on the Development of Depression-Like Behaviors in Rats Fed with High-Fat Diet*, *Proceedings of the 6th International Graduate Research Conference 2017*, Chiang Mai University, Thailand, 2017 (Full paper)
3. H. Ronran,, A. Pleumsamran, S. M. Le Grand, S. Mingmalairak, and J. Pleumsamran, *Effect of Alpha Lipoic Acid on Hyperemia Induced by Cortical Spreading Depression*.

Proceedings of the 2nd International Graduate Research Conference 2013, Chiang Mai University, Thailand, 2013 (Full paper)

4. S. Maneesri, W. Supornsilpchai, J. Pleumsamran, A. Srikiatkhachorn. *Relationship between serotonin and nitric oxide in control of trigeminalvascular system*. Neuroscience Research Meeting of Thailand Research Fund 2009
5. M. Oshinsky, J. Pattamanont, J. Luo. *Isovaleraminde inhibits the induction of and reverses central sensitization in the trigeminal nucleus caudalis*. The 48th Annual Scientific Meeting of the American Headache Society 2006
6. S.M. le Grand, W. Supornsilpchai, J. Pattamanont, S. Patumraj, S. Sanrangsirikul, A. Srikiatkhachorn. *Inhibitory effect of L-NAME on CSD-induced trigeminal nociception: Vascular vs. Neuronal mechanism*. J Headache Pain 2006; 7: S15.
7. A. Srikiatkhachorn, S. Maneesri, J. Pattamanont, S. Patumraj . *Nitric oxide scavenging may explain the potential antimigraine effect of melatonin*. Cephalalgia 2003; 23: 645.
8. J. Pattamanont, S. Maneesri, S. Patumraj, A. Srikiatkhachorn. *Cortical spreading depression induces cerebral hyperemia but not perivascular inflammation*. Cephalalgia 2003; 23: 649.