Curriculum Vitae

Apisate Pleumsamran, M.D., Ph.D.

Office Address: Department of Physiology, Faculty of Medicine, Chiang Mai University
110 Intawaroros Road, Tambon Sriphum, Mueang District,
Chiang Mai 50200, Thailand
Phone : +66 5393 5362-4
Fax : +66 5393 5365
E-mail : apisate.p@cmu.ac.th

EDUCATION

1984-1990 M.D., Chiang Mai University, Chiang Mai, Thailand

1992-1997 Ph.D. (Physiology and Biophysics), Finch University of Health Sciences/ The Chicago Medical School, North Chicago, Illinois, USA

HONORS AND AWARDS

1991-1996 The Royal Thai Government Scholarship, Thailand

PROFESSIONAL APPOINTMENT

1990-2001 Instructor of Physiology
Department of Physiology, Chiang Mai University,
Chiang Mai, Thailand

2002-present Assistant Professor of Physiology
Department of Physiology, Chiang Mai University,

Chiang Mai, Thailand

2009–2013 Chair
Department of Physiology, Chiang Mai University,
Chiang Mai, Thailand

PROFESSIONAL LICENSES

1990–present M.D. (Thailand)

ORGANIZATION AND PARTICIPATION

1998–present The Physiological Society of Thailand

PROFESSIONAL ACTIVITIES

2001–2014 Quality Assurance Auditor, Faculty of Medicine, Chiang Mai University, Thailand

2003–2014 Medical Curriculum Advisory Committee, Faculty of Medicine, Chiang Mai University, Thailand

2006–2018 Secretary to the Administrative Committee, The Northern Neuroscience Center, Faculty of Medicine, Chiang Mai University, Thailand

2010–2014 Intra-organizational assessor, Chiang Mai University, Thailand

2016–2018 Vice president to the Selection Committee, Prince Mahidol Award Youth Program

2018–present Vice-chair to the Administrative Committee, The Northern Neuroscience Center, Faculty of Medicine, Chiang Mai University, Thailand

PRESENTATIONS AT NATIONAL MEETINGS

–

PRESENTATIONS AT INTERNATIONAL MEETINGS

March, 2018 The 95th Annual Meeting of the Physiological Society of Japan, Japan

February, 2017 The 6th International Graduate Research Conference 2017, Chiang Mai

INVITED LECTURES AT NATIONAL MEETINGS

–

INVITED LECTURES AT INTERNATIONAL MEETINGS

–

ACADEMIC ACTIVITIES

Graduate Student's Dissertation Committees

2016–2019 Miss Phitchaya Saenubol (M.S. in Veterinary Science)
"Correlation between Bispectral Index and modified Glasgow Coma Scale in altered level of consciousness in dogs" (Co-Advisor)

2015–2018 Miss Jutamas Ruenpang (M.Sc. in Physiology)
"Effects of Rosuvastatin on Oxidative Stress and the Development of Depression-like Behaviors in Rats Fed with High-fat Diet" (Advisor)

Special Academic Appointments

2007–present Chair to the Administrative Committee, Ph.D. Graduate Program in Physiology, Chiang Mai University, Thailand

2008–2018 Selection Committee, Prince Mahidol Award Youth Program.

2016–2018 Vice president to the Selection Committee, Prince Mahidol Award Youth Program

RESEARCH GRANT SUPPORT

2018-2020 Faculty of Medicine Endowment Fund for Research. Project Title
"Effect of high-fat diet on brain-derived neurotrophic factor"

PREVIOUS GRANT SUPPORT

2016-2017 Faculty of Medicine Endowment Fund for Research. Project Title
"Anxiety-related behaviors in rats fed with high-fat diet"

2017-2019 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" (Co-Investigator).

PATENTS

–

RESEARCH FIELDS OF INTEREST

1. Autonomic dysfunction
2. Electrophysiology

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. W. Punyodom, R. Molloy, K. Nalampang, C. Kamcharoen, B. Waraegsiri, K. Sananpanich and A. Pleumsamran, *Novel Biodegradable Polyesters for Use as Absorbable Nerve Guides*, Chiang Mai J. Sci., 2005. 32, 3.

5. D. Kim and A. Pleumsamran, *Cytoplasmic unsaturated free fatty acids inhibit ATP-dependent gating of the G protein–gated K^+ channel.* Journal of General Physiology, 2000. 115: p. 287–304.

6. A. Pleumsamran, M.L. Wolak, and D. Kim, *Inhibition of ATP–induced increase in muscarinic K^+ current by trypsin, alkaline pH and anions.* American Journal of Physiology, 1998. 275: p. H751–759.

7. S.GF. Hong, A. Pleumsamran, and D. Kim, *Regulation of the atrial muscarinic K^+ channel activity by a cytosolic protein via G protein–independent pathway.* American Journal of Physiology, 1996. 270: p. H526–537.

8. A. Pleumsamran and D. Kim, *Membrane stretch augments the cardiac muscarinic K^+ channel activity.* Journal of Membrane Biology, 1995. 148: p. 287–297.

9. C. Fu *et al.*, *Different properties of the atrial G protein–gated K^+ channel activated by extracellular ATP and Adenosine.* American Journal of Physiology, 1995. 269: p. H1349–1358.

PEER-VIEWED 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, Proceedings of the 95th Annual Meeting of the Physiological Society of Japan, 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
3. H. Ronran, H., 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
4. P. Petchchauy, A. Pleumsamran, and P. Tangchaisin, Cryopreservation of Mature Mouse Oocytes by Closed–System Solid Surface Vitrification Compare With Programmable Slow Freezing. Abstract book to the 37th Annual Meeting of the Physiological Society of Thailand, 2008.
5. W. Punyodom, R. Molloy, K. Nalampang, J. Siripitayananon, B. Waraegsiri, K. Sananpanich, A. Pleumsamran, and T. Amornsakchai, Biodegradable Polyesters for Use as Absorbable Nerve Guides: Synthesis, Fabrication, In Vitro Biodegradation and Cytotoxicity Study. Abstract Book to the Fourth Thailand Materials Science and Technology Conference, 2006. B06
6. W. Punyodom, R. Molloy, K. Nalampang, C. Kamcharoen, K. Sananpanich and A. Pleumsamran, Novel Biodegradable Polyesters for Use as Absorbable Nerve Guides. Abstract Book to the International Conference on Smart Materials, 2004. 1: p. 74–5
7. A. Pleumsamran, Cellular electrophysiology and channelopathy of neurons. Proceedings to the 1st International Neurologic and Cardiac Electrophysiology Symposium, 2004. 1: p.44–5. (ISBN 974–658–206–2)

8. A. Pleumsamran, Regulation of the atrial muscarinic potassium channel by G-protein and adenosine-5'-triphosphate. Abstract book to the 27th Annual Meeting of the Physiological Society of Thailand, 1998.

CONFERENCE SHORT PAPERS AND ABSTRACTS

–

BOOK CHAPTERS

–