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EDUCATION

2004-2007: B.Sc. (Biology), Faculty of Science, Prince of Songkla University

2008-2013: Ph.D. (Physiology), Faculty of Science, Mahidol University

PROFESSIONAL EXPERIENCES

2012: Research Scholar, Laboratory of Prof. David Sheppard, School of Physiology, Pharmacology and Neuroscience, University of Bristol, UK

2013-2017: Lecturer, Department of Physiology, Faculty of Science, Prince of Songkla University, Songkhla, Thailand

2016: Research Scholar, Laboratory of Prof. David Sheppard, School of Physiology, Pharmacology and Neuroscience, University of Bristol, UK

2017-present: Assistant Professor, Division of Health and Applied Sciences (Physiology), Faculty of Science, Prince of Songkla University, Songkhla, Thailand

PUBLICATIONS

- 1) K-da S., Peerakietkhajorn S., Siringoringo B., Muangnil P., Wichienchot S., **Khuituan P.**, 2020. Oligosaccharides from *Gracilaria fisheri* ameliorate gastrointestinal dysmotility and gut dysbiosis in colitis mice. *Journal of Functional Foods* 71.
- 2) Hayeeawaema F., Wichienchot S., **Khuituan P.**, 2020. Amelioration of gut dysbiosis and gastrointestinal motility by konjac oligo-glucomannan on loperamide-induced constipation in mice. *Nutrition* 73.
- 3) Peerakietkhajorn S., Jeanmard N., Chuenpanitkit P., Sakena K.D.A., Bannob K., **Khuituan P.**, 2020. Effects of plant oligosaccharides derived from dragon fruit on gut microbiota in proximal and distal colon of mice Kesan Tumbuhan Oligosakarida yang Diambil daripada

Buah Naga pada Mikrobiota Usus dalam Kolon Proksi dan Distal Tikus. *Sains Malaysiana* 49(3): 603-611.

- 4) **Khuituan, P.**, K-da, S., Bannob, K., Hayeeawaema, F., Peerakietkhajorn, S., Tipbunjong, C., Wichienchot, S., Charoenphandhue, N. (2019). Prebiotic oligosaccharides from dragon fruits alter gut motility in mice. *Biomedicine & Pharmacotherapy*.114:108821.
- 5) Pradab S., Konthapakdee N., **Khuituan P.**, 2019. Anti-inflammatory effect of kratom extract on colonic and urinary bladder functions in colitis mice. The 47th Physiological Society of Thailand 2019 Annual Meeting, The Sukosol Hotel, Bangkok, Thailand.
- 6) Hayeeawaema F., Nhaemchei C., **Khuituan P.**, 2019. Effects of fluoxetine on small and large intestinal smooth muscle contraction in mice. The 47th Physiological Society of Thailand 2019 Annual Meeting, The Sukosol Hotel, Bangkok, Thailand.
- 7) Siringoringo B., Tipbunjong C., Nopparat J., Huipao N., **Khuituan P.**, 2019. Protective effects of agaro-oligosaccharides derived from Pomnang seaweed on acetic acid-induced colitis mice. The 47th Physiological Society of Thailand 2019 Annual Meeting, The Sukosol Hotel, Bangkok, Thailand.
- 8) Siringoringo B., Tipbunjong C., Nopparat J., Huipao N., **Khuituan P.**, 2019. Anti-inflammatory effect of *Gracilaria fisheri* agaro-oligosaccharides on the intestinal epithelial barrier in colitis mice. National and International Conferences on Biomedical Sciences and Medical Technology 2019, Grand Fortune Hotel, Thasala, Nakhon Si Thammarat, Thailand.
- 9) K-da S., Peerakietkhajorn S., Wichienchot S., **Khuituan P.**, 2019. *Gracilaria fisheri* oligosaccharides remedy gastrointestinal motility disorders in colitis mice. National and International Conferences on Biomedical Sciences and Medical Technology 2019, Grand Fortune Hotel, Thasala, Nakhon Si Thammarat, Thailand.
- 10) **Khuituan P.**, K-da S., Bannob K., Hayeeawaema F., Peerakietkhajorn S., Wichienchot S., Charoenphandhue N., 2019. Dragon fruit oligosaccharide ingestion enhances mouse intestinal motility. In: 9th FAOPS (Federation of the Asian and Oceanian Physiological societies) Congress, The physiological society of Japan, Kobe Convention Center, Kobe, Japan.
- 11) Peerakietkhajorn S., Jeanmard N., Chuenpanitkit P., K-da S., Bannob K., **Khuituan P.**, 2019. Effects of dragon fruit oligosaccharide on microbiota in proximal and distal colon of mouse. In: 9th FAOPS (Federation of the Asian and Oceanian Physiological societies) Congress, The physiological society of Japan, Kobe Convention Center, Kobe, Japan.
- 12) Tipbunjong C., **Khuituan P.**, Kitiyanant Y., Suksamrarn A., Pholpramool C. (2019). Diarylheptanoid 1-(4-hydroxyphenyl)-7-phenyl-(6E)-6-hepten-3-one enhances C2C12

- myoblast differentiation by targeting membrane estrogen receptors and activates Akt-mTOR and p38 MAPK- NF- κ B signaling axes. *Journal of Natural Medicines*. doi: 10.1007/s11418-019-01322-7. [Epub ahead of print]
- 13) Peerakietkhajorn S., Jeanmard N., **Khuituan P.**, Saetan J., 2018. Effects of dragon fruit oligosaccharide (DFO) on villus and crypt lengths of mouse small intestine. In: *The International Bioscience Conference and the 7th Joint International PSU-UNS Bioscience Conference 2018*.
 - 14) Hayeeawaema F. , Wichienchot S. , **Khuituan P.** , 2018. Effects of konjac oligoglucosaccharide on colonic contractility in constipated mice. *Proceedings of International Conference on Biomedical Sciences - ICBMS 2018, School of Allied Health Sciences, Walailak University, Thailand*.
 - 15) Kaewsaro K., Nuanplub S., Bumrungsri S., **Khuituan P.**, 2017. Furosemide suppresses ileal and colonic contractility via interactions with GABA-A receptor in mice. *Clin Exp Pharmacol Physiol.*, 44(11):1155–1165.
 - 16) Liu J., Cami-Kobeci G., Wang Y., **Khuituan P.**, Cai Z., Li H., Husbands SM., Sheppard DN., 2015. Ion Channel Drug Discovery: Chapter 8: The Therapeutic Potential of Small-molecule Modulators of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Cl⁻-Channel. *Royal Society of Chemistry, Cambridge*, p. 156–185.
 - 17) Cai Z., Palmari-Pallag T., **Khuituan P.**, Mutolo MJ., Boinot C., Liu B., Scott-Ward TS., Callebaut I., Harris A., Sheppard DN., 2015. Impact of the F508del mutation on ovine CFTR, a Cl⁻ channel with enhanced conductance and ATP-dependent gating. *J Physiol.*, 593(11):2427–2446.
 - 18) Ju M., Scott-Ward TS., Liu J., **Khuituan P.**, Li H., Cai Z., Husbands SM., Sheppard DN., 2014. Loop diuretics are open-channel blockers of the cystic fibrosis transmembrane conductance regulator with distinct kinetics. *Br J Pharmacol.*, 171(1):265–278.
 - 19) Charoenphandhu N., Kraidith K., Teerapornpantakit J., Thongchote K., **Khuituan P.**, Svasti S., Krishnamra N., 2013. 1,25-Dihydroxyvitamin D₃-induced intestinal calcium transport is impaired in beta-globin knockout thalassemic mice. *Cell Biochem Funct.*, 31(8):685–689.
 - 20) **Khuituan P.**, Wongdee K., Jantarajit W., Suntornsaratoon P., Krishnamra N., Charoenphandhu N., 2013. Fibroblast growth factor-23 negates 1,25(OH)₂D₃-induced intestinal calcium transport by reducing the transcellular and paracellular calcium fluxes. *Arch Biochem Biophys.*, 536(1):46–52.

- 21) **Khuituan P.**, Teerapornpuntakit J., Wongdee K., Suntornsaratoon P., Konthapakdee N., Sangsaksri J., Sripong C., Krishnamra N., Charoenphandhu N., 2012. Fibroblast growth factor-23 abolishes 1,25-dihydroxyvitamin D₃-enhanced duodenal calcium transport in male mice. *Am J Physiol Endocrinol Metab.*, 302(8):E903–E913.