Panapat Uawithya Curriculum Vitae

NAME Panapat Uawithya

POSITION TITLE Associate professor

CURRENT ADDRESS Department of Physiology, Faculty of Medicine

Siriraj Hospital, Mahidol University

2 Prannok Rd., Siriraj, Bangkoknoi

Bangkok, Thailand 10700

TELEPHONE NUMBER (02) 419-7577 **FAX** (02) 411-5009

E-mail panapat.uaw@mahidol.ac.th

EDUCATION AND TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(S)	FIELD OF STUDY
Faculty of Science, Mahidol University	B.Sc. (2nd class honor)	1993-1996	Medical Science
Institute of Molecular biology and Genetics, Mahidol University	Ph.D.	1996-2002	Molecular Genetics and Genetic Engineering
Siriraj Hospital, Mahidol University	M.D. (2nd class honor)	1993-2004	
National Institutes of Health, Bethesda MD, USA	Post Doctoral Research Fellow	2006-2008	Renal study

Position

2004-2011 Instructor and researcher in Cardiovascular division, Department of Physiology, Faculty of Medicine, Siriraj Hospital, Mahidol University

2011-2019 Assistant professor in Cardiovascular division, Department of Physiology, Faculty of Medicine, Siriraj Hospital, Mahidol University

2020-present Associate professor in Cardiovascular division, Department of Physiology, Faculty of Medicine, Siriraj Hospital, Mahidol University

2015-2022 Assistant Dean, Property and Procurement, Faculty of Medicine, Siriraj Hospital, Mahidol University

2022-2023 Assistant Hospital Director, Medical Devices Division, , Faculty of Medicine, Siriraj Hospital, Mahidol University

PROFESSIONAL MEMBERSHIPS

2005-present Member of Thailand Physiological Society

2007-2008 Member of American Physiological Society

HONORS

2006 Post doctoral research scholar, National Institutes of Health, USA

2001 Dean award for outstanding student by Dean of Institute of Molecular biology and Genetics

SELECTED PEER-REVIEWED PUBLICATIONS

1. **Uawithya P**, Pisitkun T, Ruttenberg BE, Knepper MA. Transcriptional profiling of native inner medullary collecting duct cells from rat kidney. Physiol Genomics. 2008;32(2):229-53.

2. Yu MJ, Miller RL, **Uawithya P**, Rinschen MM, Khositseth S, Braucht DW, et al. Systems-level analysis of cell-specific AQP2 gene expression in renal collecting duct. Proc Natl Acad Sci U S A. 2009;106:2441-6.

3. Kanjun K, **Uawithya P**. Detection of NMO-IgG antibodies in Thai NMO patients using a recombinant E. coli AQP4-M23 ELISA. J Physiol Biomed Sci 2014; 27: 44-47.

4. Kreeinthong S, **Uawithya P**. Effects of short-term silver nanoparticle exposure on proliferative signaling pathway in human skin keratinocyte. J Physiol Biomed Sci 2014; 27: 48-53.

5. Kanjun K, Siritho S, Apiwattanakul M, Prayoonwiwat N, **Uawithya P**. Detection of aquaporin-4 antibody status of Thai patients with neuromyelitis optica spectrum disorders using a recombinant Escherichia coli aquaporin-4 enzyme-linked immunosorbent assay. Clin Exp Neuroimmunol 2015;6:57-66.

6. Khositseth S, Uawithya P, Somparn P, Charngkaew K, Thippamom N, Hoffert JD, et al. Autophagic degradation of aquaporin-2 is an early event in hypokalemia-induced nephrogenic diabetes insipidus. Sci Rep 2015;5:1-15

7. Khositseth S, Charngkaew K, Boonkrai C, Somparn P, Uawithya P, Chomanee N, Payne DM et al. Hypercalcemia induces targeted autophagic degradation of aquaporin-2 at the onset of nephrogenic diabetes insipidus. Kidney Int 2017;91(5):1070-1087

8. Oo EM, Ruamyod K, Khowawisetsut L, et al. Germinated Brown Rice Attenuates Cell Death in Vascular Cognitive Impaired Mice and Glutamate-Induced Toxicity In HT22 Cells. J Agric Food

Chem. 2020;68(18):5093-5106.

9. Khemthongcharoen, N., Uawithya, P., Chanasakulniyom, M., Yasawong, M., Jeamsaksiri, W., Sripumkhai, W., … Promptmas, C. (2021). Polydimethylsiloxane (PDMS) microfluidic modifications for cell-based immunofluorescence assay. Journal of Adhesion Science and Technology, 35(9), 955–972. doi:10.1080/01694243.2020.1831837

10. Khemthongcharoen, N., Uawithya, P., Yookong, N., Chanasakulniyom, M., Jeamsaksiri, W., Sripumkhai, W., … Promptmas, C. (2021). Microfluidic system evaluation for the semi-automatic detection of MOG-IgG in serum samples. Sensing and Bio-Sensing Research, 34. doi:10.1016/j.sbsr.2021.100458

11. Thienthong, T., Juntasaro, E., Khemthongcharoen, N., Sripumkhai, W., Houngkamhang, N., Pattamang, P., … Jeamsaksiri, W. (2022). Development of a Serological Dilution Microfluidic Chip for Immunoassay Applications. Science and Technology Asia, 27(3), 152–174.

12. Khemthongcharoen, N., Uawithya, P., Yookong, N., Chanasakulniyom, M., Jeamsaksiri, W., Sripumkhai, W., … Promptmas, C. (2023). A simple and high -performance immobilization technique of membrane protein from crude cell lysate sample for a membrane-based immunoassay application. Journal of Immunoassay and Immunochemistry, 44(1), 76–89. doi:10.1080/15321819.2022.2137420

13. Promtang, S., Turbpaiboon, C., Oo, E. M., Khowawisetsut, L., Uawithya, P., & Chompoopong, S. (2023). Germinated brown rice protects against glutamate toxicity in HT22 hippocampal neurons through the jnk-mediated apoptotic pathway via the GABAA receptor. IBRO Neuroscience Reports, 14, 38–49. doi:10.1016/j.ibneur.2022.12.004