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Assistant Professor

Professional Specialty: Degenerative Nerve Diseases,
Metabolic Diseases,
Cell and Molecular Biology,
Veterinary Physiology,
Veterinary Pharmacology

Courses Taught: General Zoology, Veterinary Physiology,
Pathophysiology, Comparative Physiology
Veterinary Pharmacology

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Educational Background

- Ph.D., Department of Veterinary Medical Sciences, Graduate School of Agricultural and Life Sciences, The University of Tokyo (Japan)
- BVM, Department of Veterinary Medicine, National Chung-Hsing University (Taiwan)

Professional Career

- Postdoctoral Fellow, Department of Veterinary Medicine, National Chung-Hsing University (Taiwan)

Honors

- The University of Tokyo Fellowship

Selected Publications

- Chen WH, Wu YY, Hsu MC, Chen CH, **Hsu JCN**, Lee TS*. Bromelain enhances nitric oxide bioavailability: bradykinin's link to TRPV1/Ca²⁺/AMPK/autophagy signaling. *Biomedicine & Pharmacotherapy*. 190: 118376, 2025.
- **Hsu JCN**, Hu PA, Chen CH, Lee CJ, Hu HY, Hsu MC, Chen WH, Lee HT*, Lee TS*. Bromelain prevents Alzheimer's disease progression by suppressing oxidative stress and upregulating apolipoprotein A1 in 5x familial Alzheimer's disease transgenic mice. *Journal of Agriculture and Food Research*. 21: 101927, 2025.
- **Hsu JCN**, Chiu KT, Chen CH, Wang CH, Shyue SK*, Lee TS*. HMGB1 regulates adipocyte lipolysis via caveolin-1 signaling: implications for metabolic and cardiovascular diseases. *International Journal of Molecular Sciences*. 26: 4222, 2025.
- Hung WM, Wang HC, **Hsu JCN***. A novel electroencephalographic evaluation of noxious stimulation during isoflurane anesthesia in dogs. *Experimental Animals*. 74: 83–92, 2025.

- **Hsu JCN**, Tseng HW, Chen CH, Lee TS*. Transient receptor potential vanilloid 1 interacts with Toll-like receptor 4 (TLR4)/cluster of differentiation 14 (CD14) signaling pathway in lipopolysaccharide-mediated inflammation in macrophages. *Experimental Animals*. 73: 336–346, 2024.
- **Hsu JCN**, Rairat T, Lu YP, Chou CC*. The use of tricaine methanesulfonate (MS-222) in Asian seabass (*Lates calcarifer*) at different temperatures: Study of optimal doses, minimum effective concentration, blood biochemistry, immersion pharmacokinetics, and tissue distributions. *Veterinary Sciences*. 10: 539, 2023.
- Sung CH, Liu PC, **Hsu JCN**, Chou CC*. C-reactive protein as an efficient indicator monitoring and prognosing canine inflammatory diseases. *Taiwan Veterinary Journal*. 47: 49–60, 2022.
- Rairat T, Liu YK, **Hsu JCN**, Hsieh CY, Chuchird N, Chou CC*. Combined effects of temperature and salinity on the pharmacokinetics of florfenicol in Nile tilapia (*Oreochromis niloticus*) reared in brackish water. *Frontiers in Veterinary Science*. 9: 826586, 2022.
- **Hsu JCN**, Sekizawa SI*, Tochinai R, Kuwahara M*. Loss of group II metabotropic glutamate receptor signaling exacerbates hypertension in spontaneously hypertensive rats. *Life (Basel)*. 11: 720, 2021.
- **Hsu JCN**, Sekizawa SI*, Tochinai R, Kuwahara M*. Chronic stimulation of group II metabotropic glutamate receptors in the medulla oblongata attenuates hypertension development in spontaneously hypertensive rats. *PLoS One*. 16: e0251495, 2021.
- Kaneko K, Chikamoto A, **Hsu JCN**, Tochinai R, Sekizawa SI, Yamamoto M, Kuwahara M*. Effects of environmental enrichment on autonomic nervous activity in NSY mice. *Experimental Animals*. 69: 161–167, 2020.