



## **Huang, Han Hsiang**

### **Professor**

#### **Professional specialty:**

Pharmacology, Physiology, Medical Engineering, Zoonotic Diseases, Small Animal Rehabilitation Medicine

#### **Lectures:**

Veterinary Pharmacology, Physical Therapy for Small Animals, Canine Sports Medicine, Veterinary Anatomy

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### **Educational Background**

Ph. D., The University of Sydney, Australia.

Master of Veterinary Medical Science, National Chung Hsing University, Taiwan.

Bachelor of Veterinary Medicine, National Chung Hsing University, Taiwan.

### **Current Position and Professional Career**

Professor, Department of Veterinary Medicine, NCYU, 08/2021-now

### **Honors**

Special Talents Rewards, MOST, 2014

Special Talents Rewards, NCYU/MOST, 2016

Special Talents Rewards, NCYU/MOST, 2018

Special Talents Rewards, NCYU/MOST, 2020

Excellent Mentor Award, NCYU, 2020

### **Areas of Interest and Achievements**

Pharmacology, Physiology, Medical Engineering, Zoonotic Diseases, Small Animal Rehabilitation Medicine

### **Selected Publications (after 2014)**

1. Chen C.H., Kuo S.M., Tien Y.C., Shen P.C., Kuo Y.W., **Hu an g H.H.\*** 2020. Steady augmentation of anti-osteoarthritic actions of rapamycin by liposome- encapsulation in collaboration with low-intensity pulsed ultrasound. International

Journal of Nanomedicine, 15: 3771-3790. (SCI) (Corresponding author)  
(PHARMACOLOGY & PHARMACY) (Project: MOST 106-2221-E-415-004;  
MOST 107-2313-B-415-010)

2. Huang Y.W.†, **Hu an g H.H. †**, Chang R., Wu K.L., Kuo S.M. 2020. Antiaging and smoothness-improving properties of farnesol-based facial masks on rat skin exposed to ultraviolet B. Journal of Cosmetic Dermatology. 19(2): 540-552. (SCI) (co-first author) (DERMATOLOGY)
3. Shiu L.Y., **Hu an g H.H. .**, Chen C.Y., Cheng H.Y., Chen C.I., Kuo S.M. 2020.  
Reparative and toxicity-reducing effects of liposome-encapsulated saikosaponin in mice with liver fibrosis. Bioscience Reports. 40(8): BSR20201219. (SCI) (Second author) (BIOCHEMISTRY & MOLECULAR BIOLOGY)
4. Chiang S.H.†, **Hu an g H.H. †**, Chou C.C., Chu C.S., Shih W.L., Lai J.M., Lin H.C., Yang W.C., Lee H.H., Tsai Y.L.\*, Su Y.C.\* 2020. Epidemiological survey of Toxoplasma gondii and Neospora caninum infections in dairy goats in Central- Southern Taiwan. The Journal of Veterinary Medical Science. 82(10): 1537-1544. (SCI) (co-first author) (VETERINARY SCIENCES)
5. Chen J.W.†, **Hu an g H.H. †**, Chang Z.M., Scaria J., Chiu Y.L., Chen C.M., Ko W.C., Wang J.L. 2020. Antibiotic-resistant Escherichia coli and sequence type 131 in fecal colonization in dogs in Taiwan. Microorganisms. 8(9): 1439. (SCI) (co-first author) (MICROBIOLOGY)
6. Wu Y.C., Wu G.X., **Hu an g H.H. \***, Kuo S.M.\* 2019. Liposome-encapsulated farnesol accelerated tissue repair in third-degree burns on a rat model. Burns. 45(5):1139-1151. (SCI) (Equal corresponding author) (DERMATOLOGY)
7. Wu Y.C., **Hu an g H.H. .**, Wu Y.J., Yang C.C., Kuo S.M. 2019. Therapeutic and protective effects of liposomal encapsulation of astaxanthin in mice with alcoholic liver fibrosis. International Journal of Molecular Science. 20: 4057. (SCI) (Second author) (BIOCHEMISTRY & MOLECULAR BIOLOGY)
8. 9. Kang P.L., **Hu an g H.H. .**, Chen T., Ju K.C., Kuo S.M. 2019. Angiogenesis- promoting effect of LIPUS on hADSCs and HUVECs cultured on collagen/hyaluronan scaffolds. Materials Science & Engineering C. 102: 22-23. (SCI) (Second author) (MATERIALS SCIENCE, BIOMATERIALS)
9. Lin H.C., Chong W.H.†, **Hu an g H.H. †**, Chou C.C., Tsai Y.L., Chu C.S., Shih W.L.,  
Su Y.C. 2018. Seroprevalence and molecular identification of Mycobacterium

- avium subspecies paratuberculosis in farmed goats in central-southern Taiwan. Taiwan Vet J. 44 (4): 189-196. (Equal second author)
10. Wu Y.J., Wu Y.C., Chen I.F., Wu Y.L., Chuang C.W., **Hu an g H.H.\***, Kuo S.M.\* 2018. Reparative effects of astaxanthin-hyaluronan nanoaggregates against retrorsine-CCl4-induced liver fibrosis and necrosis. *Molecules*. 23(4): 726. (SCI) (Equal corresponding author) (CHEMISTRY, MULTIDISCIPLINARY)
  11. Wu G.X., **Hu an g H.H.**, Chang H.R. and Kuo S.M. 2018. Evaluation of the UVB- screening capacity and restorative effects exerted by farnesol gel on UVB-caused sunburn. *Environmental Toxicology*. 33(4): 488-507. (SCI) (Second author) (WATER RESOURCES)
  12. Teong B., Kuo S.M., Tsai W.H., Ho M.L., Chen C.H.\*, **Hu an g H.H.\*** 2017.  
Liposomal encapsulation for systemic delivery of propranolol via transdermal iontophoresis improves bone microarchitecture in ovariectomized rats. *International Journal of Molecular Sciences*. 18(4): 822. (SCI) (Equal corresponding author) (BIOCHEMISTRY & MOLECULAR BIOLOGY) (Project: MOST-104-2221-E-415-028)
  13. Chang S.H., **Hu an g H.H.**, Kang P.L., Wu Y.C., Chang M.H., Kuo S.M. 2017. In vitro and in vivo study of the application of volvox spheres to co-culture vehicles in liver tissue engineering. *Acta Biomaterialia*. 63: 261-273. (SCI) (Second author) (MATERIALS SCIENCE, BIOMATERIALS)
  14. Chu C.C. †, **Huang H.H.** ‡, Chiang S.H., Chou C.C., Lai J.M., Shih W.L., Changchien C.H., Lin H.C., Chuang S.T., Su Y.C. 2017. Investigation on antimicrobial resistance, enterotoxin and cassette chromosome Gene of *Staphylococcus aureus* isolates from humans, cow and goats in Taiwan. *Thai J Vet Med*. 47(4): 481-492. (SCI) (co-first author) (VETERINARY SCIENCES)
  15. **Hu an g H.H.\***, Kuo S.M., Wu Y.J., Su J.H. 2016. Improvement and enhancement of anti-bladder carcinoma cell effects of heteronemin by the nano-sized hyaluronan aggregation. *International Journal of Nanomedicine*. 11: 1237-1251. (SCI) (First author and corresponding author). (PHARMACOLOGY & PHARMACY) (Project: MOST 103-2320-B-415 -004-)
  16. Hsiao K.Y., Wu Y.J., Liu N.Z., Chuang C.W., **Hu an g H.H.\***, Kuo S.M.\* 2016.  
Anticancer effects of sinulariolide-conjugated hyaluronan nanoparticles on lung adenocarcinoma cells. *Molecules*. 21(3): 297. (SCI) (Equal corresponding author) (CHEMISTRY, MULTIDISCIPLINARY)

17. Ma C.T., Wu Y.J., **Hu an g H.H.**, Kang P.L., Hsiao K.Y., Lo D.Y. and Kuo S.M.  
2016. In vitro and in vivo evaluation of the effect of nano-sized collagen molecules and nicotinamide on mesenchymal stem cell differentiation. Journal of Materials Chemistry B. 2016. 4(22): 3892-3902. (SCI) (Third author) (MATERIALS SCIENCE, BIOMATERIALS)
18. Feng T.H., Chou C.C., **Hu an g H.H.\***, Liao M.H.\* et al. 2015. Molecular prevalence of zoonotic pathogens in pet and stray dogs in southern Taiwan. Thai J Vet Med. 45(4): 509-522. (SCI) (Equal corresponding author) (VETERINARY SCIENCES)
19. Yang H.L., **Hu an g H.H.\***, Liao M.H.\* et al. 2015. Clinical Characteristics, Antibiotic Resistance and Molecular Typing of Methicillin-Resistant Staphylococcus aureus in a Teaching Hospital at South Taiwan. British Microbiology Research Journal. 8: 513-524. (Equal Corresponding author).
20. Liao M.H., Liu S.S., Peng I.C., Tsai F.J., **Hu an g H.H.\*** 2014. The stimulatory effects of alpha1-adrenergic receptors on TGF-beta1, IGF-1 and hyaluronan production in human skin fibroblasts. Cell Tissue Res. 357(3): 681-693. (SCI) (Corresponding author) (CELL BIOLOGY) (Project: NSC 101-2320-B-276-001- and NSC 100-2320-B-276-001-)
21. Teong B., Kuo S.M., Chen C.H., Chen Y.K., Cheng Z.J., **Hu an g H.H.\***. 2014.  
Characterization and human osteoblastic proliferation- and differentiation-stimulatory effects of phosphatidylcholine liposomes-encapsulated propranolol hydrochloride. Biomed Mater Eng. 24(5): 1575-1587. (SCI) (Corresponding author) (ENGINEERING BIOMEDICAL) (Project: NSC 102-2221-E-276-002- )
22. Lu C.M., Lin J.J., **Hu an g H.H.**, Ko Y.C., Hsu J.L., Chen J.C., Din Z.H., Y.J. Wu.  
2014. A panel of tumor markers, calreticulin, annexin A2, and annexin A3 in upper tract urothelial carcinoma identified by proteomic and immunological analysis. BMC Cancer. 14: 363. (SCI) (Third author) (ONCOLOGY)
23. Chou C.H., Yeh T.M., Lu Y.P., Shih W.L., Chang C.D., Chien C.H., Liu S.S., Wu H.Y., Tsai F.J., **Hu an g H. H.\*** and Liao M.H.\* 2014. Prevalence of zoonotic pathogens by molecular detection in stray dogs in central Taiwan. Thai J Vet Med. 44(3): 363-375. (SCI) (Equal corresponding author) (VETERINARY SCIENCES)