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### 簡要經歷

國立嘉義大學獸醫學系教授 (2021/08 迄今)

國立嘉義大學獸醫學系副教授 (2016/08-2021/07)

國立嘉義大學獸醫學院附設動物醫院小動物復健醫學教學門診主治獸醫師  
(2016/06 迄今)

國立嘉義大學獸醫學系助理教授 (2015/02-2016/07)

美和科技大學副教授 (2014/08-2015/01)

美和科技大學助理教授 (2009/08-2014/07)

103、105、107、109 年度科技部獎勵特殊優秀人才

中華民國生醫材料與藥物制放學會 (BCRS Taiwan) 會員

### 主要教授課程

獸醫藥理學、小動物物理治療學、犬運動醫學、獸醫解剖學、獸醫化學療法

### 研究興趣

藥理學、生理學、醫學工程、小動物復健醫學、人畜共通傳染病

### 論文發表

#### Selected publications ( 2014-2020 )

1. Chen C.H., Kuo S.M., Tien Y.C., Shen P.C., Kuo Y.W., **Huang 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.†, **Huang 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., **Huang 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.†, **Huang 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.†, **Huang 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., **Huang 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., **Huang 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. Kang P.L., **Huang 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.†, **Huang 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., **Huang H.H.\***, Kuo S.M.\* 2018. Reparative effects of astaxanthin-hyaluronan nanoaggregates against retrorsine-CCl<sub>4</sub>-induced liver fibrosis and necrosis. *Molecules*. 23(4): 726. (SCI) (Equal corresponding author) (CHEMISTRY, MULTIDISCIPLINARY)
11. Wu G.X., **Huang 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.\* , **Huang 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., **Huang 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. **Huang 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., **Huang H.H.\***, Kuo S.M.\* 2016. Anticancer effects of sinariolide-conjugated hyaluronan nanoparticles on lung adenocarcinoma cells. *Molecules*. 21(3): 297. (SCI) (Equal corresponding author) (CHEMISTRY, MULTIDISCIPLINARY)
17. Ma C.T., Wu Y.J., **Huang 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) (MATERIALS SCIENCE, BIOMATERIALS)
18. Feng T.H., Chou C.C., **Huang 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., **Huang 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., **Huang 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., **Huang 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., **Huang 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) (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., **Huang 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)