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簡要學經歷及重要榮譽

國立中興大學獸醫學系	博士班	1997.09 ~ 2002.01
中山醫學大學毒理學研究所	博士後研究	2002.08 ~ 2003.07
輔英科技大學生物技術系	助理教授	2003.08 ~ 2005.07
國立中興大學獸醫學系	助理教授	2005.08 ~ 2013.01
國立中興大學獸醫學系	副教授	2013.02 ~ 2025.07
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研究興趣及成果簡述

1. 犬皮膚病之致病因子調查研究

犬隻皮膚病之發病率高，且其病因眾多，症狀複雜，病程較長，確診及治療都有難度。台灣地處於溫暖潮濕的亞熱帶氣候，犬隻罹患皮膚病的情況更是常見。造成皮膚病之致病因子種類繁多，包括細菌、病毒、黴菌、寄生蟲、自體免疫等均可能造成犬隻的皮膚病變。本研究室長期檢測犬隻皮膚炎之致病因子，並持續監測致病菌之抗藥性。

2. 針灸及中草藥在小動物臨床之應用研究

針灸及中草藥的應用在傳統醫學上具有悠久歷史，然而在小動物疾病的應用研究並不多。本研究室持續進行針灸及中草藥在小動物臨床之應用研究。

- (1) 針灸在關節炎之應用研究
- (2) 針灸在異位性皮膚炎之應用研究
- (3) 中草藥在異位性皮膚炎之應用研究

代表著作 (2018 ~ 迄今)

1. Lai CY, Hsieh MC, Ho YC, Chen GD, Chou D, Ruan T, Lee AS, Wang HH, Chau YP, Peng HY, Lai CH*. 2018. GluN2B/CaMKII mediates CFA-induced hyperalgesia via HDAC4- modified spinal COX2 transcription. *Neuropharmacology* 135: 536-546. (SCI, Q1)
2. Tu WJ, Wang MC, Jau GC, Tsai CT, Lin CC, Inoue S, Butudom P, Lai CH*, Fei CY. 2020. A study of the temporal dynamics and human exposure to the Formosan ferret-badger (*Melogale moschata subaurantiaca*) rabies, 2013 to 2019, Taiwan. *Thai Journal of Veterinary Medicine* 50: 543-548. (SCI, Q4)
3. Tu WJ, Inoue S, Tung KC, Hsu TH, Yang CY, Lin CC, Lai CH*, Fei CY. 2021. The wave front spread rate of Chinese ferret-badger rabies in eastern Taiwan. *Open Access Research Journal of Multidisciplinary Studies* 02: 057-062.

4. Huang HM, Ho CY, Chang GR, Shia WY, Lai CH, Chao CH, Wang CM. 2021. HPLC/ESI-MS and NMR analysis of chemical constituents in bioactive extract from the root nodule of *Vaccinium emarginatum*. *Pharmaceuticals* 14: 1098. (SCI, Q1)
5. Fang PH, Lai YY, Chen CL, Wang HY, Chang YN, Lin YC, Yan YT, Lai CH*, Cheng B*. 2022. Cobalt protoporphyrin promotes human keratinocyte migration under hyperglycemic conditions. *Molecular Medicine* 28: 71. (SCI, Q1)
6. Lai CH, Ma YC, Shia WY, Hsieh YL, Wang CM. 2022. Risk factors for antimicrobial resistance of *Staphylococcus* species isolated from dogs with superficial pyoderma and their owners. *Veterinary Sciences* 9: 306. (SCI, Q2)
7. Tu WJ, Tung KC, Hsu TH, Yang CY, Lin CC, Lai CH*, Fei CY. 2022. Cross-species infections of Formosan ferret-badger (*Melogale moschata subaurantiaca*) rabies from 2013 to 2021 in Taiwan. *Thai Journal of Veterinary Medicine* 52: 781-787. (SCI, Q4)
8. Kuo CC, Chan IP*, Lai CH. 2022. Comparative electrocardiographic study of the Asian freshwater box turtle *Cuora flavomarginata* and the Asian yellow pond turtle *Mauremys mutica* using non-invasive methods. *Veterinary Record Open* 9: e52. (SCI, Q2)
9. Chen DJ, Lai CH*. 2023. Exploring the mechanisms of magnolol in the treatment of periodontitis by integrating network pharmacology and molecular docking. *Biocell* 47: 1317-1327. (SCI, Q4)
10. Lai CH, Lin YS, Wang CM, Chang PC, Shia WY*. 2023. A novel 16S rRNA PCR-restriction fragment length polymorphism assay to accurately distinguish zoonotic *Capnocytophaga canimorsus* and *C. cynodegmi*. *Microbiology Spectrum* 11: 02916-22. (SCI, Q2)
11. Chiou CJ, Hsu TH, Yang CY, Tung KC, Cheng CH, Lin CC, Lai CH*, Fei CY. 2023. The impact of river and mountainous terrain on the spread of Formosan ferret-badger (*Melogale moschata subaurantiaca*) rabies in Taiwan. *Open Access Research Journal of Multidisciplinary Studies* 06: 035-041.
12. Jhang SW, Liu YT, Kor CT, Wu YP, Lai CH*. 2024. Low prognostic nutritional index predicts in-hospital complications and case fatality in patients with spontaneous intracerebral hemorrhage: a retrospective study. *Nutrients* 16: 1841. (SCI, Q1)
13. Lai CH*, Wang MC, Fei CY. 2024. An evaluation of two independent populations for Formosan ferret-badgers sampling in Taiwan. *Open Access Research Journal of Multidisciplinary Studies* 08: 068-074.
14. Liao CY, Lai CH*. 2024. Integrated Western and traditional Chinese medicine therapy in a dog with acute pancreatitis. *Thai Journal of Veterinary Medicine* 54: 1-6. (SCI, Q4)
15. Fang PH, Lin TY, Huang CC, Lin YC, Lai CH*, Cheng B*. 2025. Cobalt protoporphyrin downregulates hyperglycemia-induced inflammation and enhances mitochondrial respiration in retinal pigment epithelial cells. *Antioxidants* 14: 92. (SCI, Q1)
16. Lai CH*, Wang MC, Hsu CN, Chang CY, Inoue S, Fei CY. 2025. Possible factors concerning the crossing of Formosan ferret-badger rabies over the Daan river in Miaoli county, Taiwan. *Animals* 15: 319. (SCI, Q1)
17. Liao CY, Cheng TL, Lai CH*. 2025. Relationship between urine protein-to-creatinine ratio and leukocyte esterase in canine urine samples. *Veterinary Medicine and Science* 11: e70532. (SCI, Q2)