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簡要學經歷及重要榮譽

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美國紐約伊坎西奈山醫學院訪問研究 (2002)

長庚大學基礎醫學研究所博士後研究員 (2006/09–2009/07)

長庚大學分子醫學研究中心博士後研究學者 (2009/08–2014/01)

國立中興大學獸醫學系助理教授 (2014/02–2019/07)

國立中興大學獸醫學系副教授 (2019/08–2025/01)

國立中興大學生物科技發展中心教學發展組組長 (2023/08–)

國立中興大學–中央研究院「微生物基因體學博士學位學程」合聘師資 (2024/02–)

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第五屆亞洲蛋白質體學會—膜蛋白質體研討會壁報論文獎 (2009)

105 年興大之光 (2016)

106 年中興大學教學特優獎 II (2017)

106 年李崇道博士基金會台灣獸醫菁英獎—教學研究獎 (2017)

107–111 年中興大學優聘教師 III (2018–2020、2020–2022)

115–117 年中興大學特聘教授 III (2026–2028)

研究興趣與成果簡述

- 腫瘤發展之分子機制
- 腫瘤、病毒與腫瘤微環境的交互作用
- 腫瘤檢測或治療方法的開發及應用

論文著作

2002–2014

1. K-P Chow, H-C Lu, H-F Chou, **H-P Liu**, S-L Hsieh, Y-S Chang, K-B Choo*. Induction of chemosensitivity in nasopharyngeal carcinoma cells using a human papillomavirus regulatory sequence and the thymidine kinase gene. *Journal of Biomedical Science*, 2002 Jan-Feb, 9(1): 41–46. [SCI]
2. Y-H Hsieh[§], **H-P Liu**[§], S-J Lo, Y-S Chang*. Tumor regression by expression of high physiological levels of EBV latent membrane protein 1. *Cancer Biology & Therapy*, 2006 Mar, 5(3): 310–317. [SCI]
3. **H-P Liu**, C-C Wu, Y-S Chang*. PRA1 promotes the intracellular trafficking and NF- κ B signaling of EBV latent membrane protein 1. *The EMBO Journal*, 2006 Sep, 25(17): 4120–4130. [SCI]
4. C-C Wu, H-C Chen, S-J Chen, **H-P Liu**, Y-Y Hsieh, C-J Yu, R-P Tang, L-L Hsieh, J-S Yu*, Y-S Chang.

Identification of collapsin response mediator protein-2 as a potential marker of colorectal carcinoma by comparative analysis of cancer cell secretomes. *Proteomics*, 2008 Jan, 8(2): 316–332. [\[SCI\]](#)

5. L-C Chen, **H-P Liu**, H-P Li, C Hsueh, J-S Yu, C-L Liang, Y-S Chang*. Thymidine phosphorylase mRNA stability and protein levels are increased through ERK-mediated cytoplasmic accumulation of hnRNP K in nasopharyngeal carcinoma cells. *Oncogene*, 2009 Apr, 28(17): 1904–1915. [\[SCI\]](#)
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7. C-C Wu, C-W Hsu, C-D Chen, C-J Yu, K-P Chang, D-I Tai, **H-P Liu**, W-H Su, Y-S Chang, J-S Yu*. Candidate serological biomarkers for cancer identified from the secretomes of 23 cancer cell lines and the human protein atlas. *Molecular & Cellular Proteomics*, 2010 Jun, 9(6): 1100–1117. [\[SCI\]](#)
8. C-S Wu, Y-J Lu, H-P Li*, C Hsueh, C-Y Lu, Y-W Leu, **H-P Liu**, K-H Lin, T-H Huang, Y-S Chang*. *Glutamate receptor, ionotropic, kainate 2* silencing by DNA hypermethylation possesses tumor suppressor function in gastric cancer. *International Journal of Cancer*, 2010 Jun, 126(11): 2542–2552. [\[SCI\]](#)
9. **H-P Liu**, P-J Chung*, C-L Liang, Y-S Chang*. The MYND domain-containing protein BRAM1 inhibits lymphotoxin beta receptor-mediated signaling through affecting receptor oligomerization. *Cellular Signaling*, 2011 Jan, 23(1): 80–88. [\[SCI\]](#)
10. **H-P Liu**, C-C Wu, H-Y Kao, Y-C Huang, Y Liang, C-C Chen, J-S Yu, Y-S Chang*. Proteome-wide dysregulation by PRA1 depletion delineates a role of PRA1 in lipid transport and cell migration. *Molecular & Cellular Proteomics*, 2011 Mar, 10(3): M900641MCP200. [\[SCI\]](#)
11. Y-T Chang, C-C Wu*, Y-M Shyr, T-C Chen, T-L Hwang, T-S Yeh, K-P Chang, **H-P Liu**, Y-L Liu, M-H Tsai, Y-S Chang, J-S Yu*. Secretome-based identification of ULBP2 as a novel serum marker for pancreatic cancer detection. *PLoS One*, 2011 May, 6(5): e20029. [\[SCI\]](#)
12. **H-P Liu**, C-C Chen, C-C Wu, Y-C Huang, S-C Liu, Y Liang, K-P Chang, Y-S Chang*. Epstein–Barr virus-encoded LMP1 interacts with FGD4 to activate Cdc42 and thereby promote migration of nasopharyngeal carcinoma cells. *PLoS Pathogens*, 2012 May, 8(5): e1002690. [\[SCI\]](#)
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14. C-C Chen[§], **H-P Liu**[§], M Chao, Y Liang, N-M Tsang, H-Y Huang, C-C Wu, Y-S Chang*. NF-κB-mediated transcriptional upregulation of TNFAIP2 by the Epstein–Barr virus oncoprotein, LMP1, promotes cell motility in nasopharyngeal carcinoma. *Oncogene*, 2014 Jul, 33(28): 3648–59. [\[SCI\]](#)
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16. T-S Wu, L-C Wang, S-C Liu, T-Y Hsu, C-Y Lin, G-J Feng, J-M Chen, **H-P Liu**, I-C Chung, T-C Yen, Y-S Chang, S-K Liao, C Chang*, KPN Chow*. EBV oncogene N-LMP1 induces CD4 T-cell-mediated angiogenic blockade in the murine tumor model. *The Journal of Immunology*, 2015 May, 194(9): 4577–87. [\[SCI\]](#)
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18. S-W Huang, **H-P Liu**, J-K Chen, Y-W Shien, M-L Wong, C-Y Wang*. Dual ATPase and GTPase activity of the replication-associated protein (Rep) of beak feather disease virus. *Virus Research*, 2016 Feb, 213: 149–161. [\[SCI\]](#)
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24. R-L Kuo, C-J Chen, E-H Tam, C-G Huang, L-H Li, Z-H Li, P-C Su, **H-P Liu**, C-C Wu*. Interactome analysis of NS1 protein encoded by influenza A H7N9 virus reveals an inhibitory role of NS1 in host mRNA maturation. *Journal of Proteome Research*, 2018 Apr, 7(4): 1474–1484. [\[SCI\]](#)
25. T-H Hsu, **H-P Liu**, C-Y Chin, C Wang, W-Z Zhu, B-L Wu, Y-C Chang*. Detection, sequence analysis, and antibody prevalence of porcine deltacoronavirus in Taiwan. *Archive of Virology*, 2018 Nov, 163(11): 3113–3117. [\[SCI\]](#)
26. C-C Wu, S-C Chang, G-Y Zeng, H-W Chu, Y Huang, **H-P Liu***. Proteome analyses reveal positive association of COL2A1, MPO, TYMS, and IGFBP5 with canine mammary gland malignancy. *Proteomics–Clinical Applications*, 2019 Jul, 13(4): e1800151. [\[SCI\]](#)
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33. R-L Kuo, E-H Tam, C-H Woung, C-M Hung, **H-P Liu**, HM Liu, C-C Wu*. Interactome profiling of N-terminus-truncated NS1 protein of influenza A virus reveals role of 14-3-3 γ in virus replication. *Pathogens*, 2022 Jun, 11(7): 733. [\[SCI\]](#)
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36. H-W Chu, K-P Chang, W-C Yen, **H-P Liu**, X-Y Chan, C-R Liu, C-M Hung, C-C Wu*. Identification of salivary autoantibodies as biomarkers of oral cancer with immunoglobulin A enrichment combined with affinity mass spectrometry. *Proteomics*, 2023 May, 23(9): 2200321. [\[SCI\]](#)
37. Y-C Chang[§], **H-P Liu**[§], H-L Chuang[§], J-W Liao, P-L Kao, H-L Chan, T-H Chen, Y-C Wang*. Feline mammary carcinoma-derived extracellular vesicle promotes liver metastasis via sphingosine kinase-1-mediated premetastatic niche formation. *Laboratory Animal Research*, 2023 Nov, 39 (1): 27. [\[SCI\]](#)
38. C-H Lin, H-MH Tam, C-Y Yang, F-C Hsieh, J-L Wang, C-C Yang, H-W Hsu, **H-P Liu***, H-Y Wu*. Evolution of the coronavirus spike protein in the full-length genome and defective viral genome under diverse selection pressures. *Journal of General Virology*, 2023 Nov, 104(11): 001920. [\[SCI\]](#)
39. SH-C Yuan[§], C-C Wu[§], Y-C Wang, X-Y Chan, H-W Chu, Y Yang, **H-P Liu***. AGR2-mediated unconventional secretion of 14-3-3 ϵ and α -actinin-4, responsive to ER stress and autophagy, drives chemotaxis in canine mammary tumor cells. *Cellular and Molecular Biology Letters*, 2024 May, 29(1): 84. [\[SCI\]](#)

40. X-Y Chan[§], K-P Chang[§], C-Y Yang, C-R Liu, C-M Hung, C-C Huang, **H-P Liu**, C-C Wu*. Upregulation of ENAH by a PI3K/AKT/ β -catenin cascade promotes oral cancer cell migration and growth via an ITGB5/Src axis. *Cellular and Molecular Biology Letters*, 2024 Nov, 29(1): 136. [\[SCI\]](#)
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42. Y Yamada, Y-C Wang, **H-P Liu**, GR Gerongano, C-Y Tseng, S-C Liu, G-R Liao, C-C Chang, J-W Liao, M-L Wang, Y-Y Chang, F-Y Lin, W-L Hsu*. Development of attenuated Orf virus as a safe oncolytic viral vector for nasopharyngeal carcinoma treatment. *Virology Journal*, 2025 Feb, 22(1):50. [\[SCI\]](#)
43. G-S Chen, H-Y Chiou, Y-C Chang, **H-P Liu**, Y-I Pan, M-Y Chan, T-C Liu, M-Y Chia, C Huang, H-W Chang, JP-W Chan, C-Y Chang*. Molecular and histological identification of bovine papillomavirus 1, 2, and a novel genotype in cutaneous papillomas of dairy cattle in Taiwan. *Transboundary and Emerging Diseases*, 2025 Jun, 2025: 5586786 [\[SCI\]](#)
44. C-R Liu, C-Y Yang, K-P Chang, X-Y Chan, C-M Hung, C-Y Yang, K-M Lai, **H-P Liu***, C-C Wu*. LCP1 upregulation via EGFR signaling promotes oral cancer progression through the JAK2/STAT3/IL-1 β axis. *Cancer Cell International*, 2025 Oct, 25(1): 329. [\[SCI\]](#)
45. B Lan[§], C-Y Chang[§], S-W Liu, C-C Wu, K-M Lai, **H-P Liu***. Machine learning-assisted detection of canine mammary tumors using serum autoantibody signatures. *Veterinary Quarterly*, 2026 Dec, 46(1): 2617470. [\[SCI\]](#)
46. P-L Kao[§], **H-P Liu**[§], H-L Chuang[§], W-L Hsu, Y-C Chang, J-W Liao, H-L Chan, Y-T Huang, Y-F Chen, B-Y Lin, T-H Chen, Y-C Wang*. Autologous extracellular vesicle membrane-liposome nanovesicles for targeted paclitaxel delivery in feline mammary carcinoma. Submitted.

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