



劉浩屏 Liu, Hao-Ping

副教授

專長—腫瘤病毒學、腫瘤細胞生物學、腫瘤免疫學、功能性蛋白質體學

主要教授課程

大學部—醫用生物化學暨實習、獸醫病毒學暨實習、獸醫基礎科學概論、腫瘤細胞生物學概論

研究所—高等生物化學、基礎癌症生物學、分子腫瘤學

Tel: (04) 22840368 分機 51

E-mail: hpliu@dragon.nchu.edu.tw

個人網頁:

<https://scholar.google.com/citations?user=CPWsrKAAAAAJ&hl=en>

ORCID ID: <https://orcid.org/0000-0001-5915-5128>

學經歷

學歷：國立陽明大學微生物暨免疫學研究所博士
長庚大學基礎醫學研究所碩士
國立中興大學獸醫學系學士

經歷：中華民國獸醫師檢定合格
美國紐約西奈山伊坎醫學院訪問研究 (2002)
長庚大學基礎醫學研究所博士後研究員 (2006–2009)
長庚大學分子醫學研究中心博士後研究學者 (2009–2014/01)
國立中興大學獸醫學系助理教授 (2014/02–2019/07)
國立中興大學生物科技發展中心教學發展組組長 (2023/08–)

榮譽：第十一屆 EB 病毒暨相關疾病國際研討會(德國雷根斯堡)旅行獎助 (2004)
第三屆永信李天德醫藥基金會傑出論文獎 (2008)
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 年中興大學優聘教師 III (2018–2020)
109 年中興大學優聘教師 III (2020–2022)

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

代表著作

1. Y-H Hsieh[#], **H-P Liu[#]** ([#]equal contribution), 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]
2. **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. *EMBO Journal*, 2006 Sep, 25(17): 4120–4130. [SCI]
3. 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]
4. **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]
5. **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]
6. **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]
7. C-C Chen[#], **H-P Liu[#]**, M Chao, Y Liang, N-M Tsang, H-Y Huang, C-C Wu, Y-S Chang^{*}. NF- κ B-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]

8. 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. *Journal of Immunology*, 2015 May, 194(9): 4577–87. [SCI]
9. C-C Wu, H-W Chu, C-W Hsu, K-P Chang*, **H-P Liu***. Saliva proteome profiling reveals potential salivary biomarkers for detection of oral cavity squamous cell carcinoma. *Proteomics*, 2015 Oct, 15(19): 3394–3404. [SCI] ("Featured Articles" in the issue)
10. 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]
11. Y-J Lee, M-Y Lee, A Ruan, C-K Chen, **H-P Liu**, C-J Wang, W-R Chao*, C-P Han*. Multipoint Kras oncogene mutations potentially indicate mucinous carcinoma on the entire spectrum of mucinous ovarian neoplasms. *Oncotarget*, 2016 Dec, 7(50): 82097–82103. [SCI]
12. S Kake, S Tsuj, S Enjoji, S Hanasaki, H Hayase, R Yabe, Y Tanaka, T Nakagawa, **H-P Liu**, S-C Chang, T Usui, T Ohama*, K Sato. The role of SET1/ I2PP2A in canine mammary tumors. *Scientific Reports*, 2017 Jun, 7(1): 4279. [SCI]
13. 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]
14. 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]
15. 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]
16. G-R Liao, Y-Y Tseng, J-Y Tseng, F-Y Lin, Y Yamada, **H-P Liu**, C-Y Kuan, W-L Hsu*. Adenosine deaminase acting on RNA 1 associates with Orf virus OV20.0 and enhances viral replication. *Journal of Virology*, 2019 Mar, 93(7). pii: e01912–18. [SCI]
17. H-W Chu, K-P Chang, C-W Hsu, I-Y Chang, **H-P Liu**, Y-T Chen, C-C Wu*. Identification of salivary biomarkers for oral cancer detection with untargeted and targeted quantitative proteomics approaches. *Molecular & Cellular Proteomics*, 2019 Sep, 18(9): 1796–1806. [SCI]
18. C-W Hsu, K-P Chang, Y Huang, **H-P Liu**, P-C Hsueh, P-W Gu, W-C Yen, C-C Wu*. Proteomic profiling of paired interstitial fluids reveals dysregulated pathways and salivary NID1 as a biomarker of oral cavity squamous cell carcinoma. *Molecular & Cellular Proteomics*, 2019 Oct, 18(10): 1939–1949. [SCI]
19. S-C Chang, SH-C Yuan, C-Y Li, H-M Chang, H-C Wang, Y-A Pan, P-C Hsueh, C-C Wu, Y Yang, **H-P Liu***. Significant association of serum autoantibodies to TYMS, HAPLN1 and IGFBP5 with early stage canine malignant mammary tumours. *Veterinary and Comparative Oncology*, 2021 Mar, 19(1): 172-182. [SCI]
20. G-R Liao, Y-Y Tseng, C-Y Tseng, Y-P Huang, C-H Tsai, **H-P Liu**, W-L Hsu*. K160 in the RNA-binding domain of the orf virus virulence factor OV20.0 is critical for its functions in counteracting host antiviral defense. *FEBS Letter*, 2021 Jun, 595(12): 1721-1733. [SCI]
21. SH-C Yuan, S-C Chang, Y Huang, **H-P Liu***. Serum level of tumor-overexpressed AGR2 is significantly associated with unfavorable prognosis of canine malignant mammary tumors. *Animals (Basel)*, 2021 Oct, 11(10): 2923. [SCI]
22. R-L Kuo, E-H Tam, C-H Woung, C-M Hung, **H-P Liu**, H M 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]
23. SH-C Yuan, S-C Chang, P-Y Chou, Y Yang, **H-P Liu***. The implication of serum autoantibodies in prognosis of canine mammary tumors. *Animals (Basel)*, 2022 Sep, 12(18): 2463. [SCI]
24. P-C Hsueh, K-P Chang, **H-P Liu**, W-F Chiang, X-Y Chan, C-M Hung, LJ Chu, C-C Wu*. Development of a salivary autoantibody biomarker panel for diagnosis of oral cavity squamous cell carcinoma. *Frontiers in Oncology*, 2022 Oct, 968570. [SCI]
25. 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): e2200321. [SCI]
26. 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]
27. 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]

(#, co-first author; *, corresponding author)