

姓名:	許瀚水	填表日期: (YYYY/MM/DD)	2023/02/18	
單位:	胸腔外科	現職職稱:	教授兼科主任	
Email:	hsuhs@vghtpe.gov.tw	連絡電話:	#19037	
學歷:	國立陽明大學臨床醫學研究所博士(2005-2007) 國立陽明大學醫學院醫學系(1983-1990)			
重要經歷:	國立陽明大學醫學院急重症醫學研究所專任教授兼所長(2017~) 台北榮民總醫院 外科部 胸腔外科主任(2018~) 台灣胸腔及心臟血管外科學會常務監事(2007-2009) 台灣胸腔及心臟血管外科學會常務理事(2019~) 台灣靜脈暨腸道營養醫學會常務理事(2019~) 台灣胸腔外科醫學會秘書長(2018~2022) 台灣胸腔外科醫學會名譽理事長(2022~)			
研究方向: (關鍵詞)	肺癌是目前全世界死亡率首位之癌症，五年之存活率平均只有 13-15%。早期轉移與缺乏有效治療方法是肺癌預後不佳的主要原因。過去有研究指出癌症幹細胞存在於一般之癌細胞裡，俱有自我分化及更新之性質，癌症幹細胞可能與癌症之生成與復發有關。另有研究指出，癌症之抗藥性可能與癌症幹細胞之存活有關。我們實驗室主要之研究方向為探討癌症幹細胞之各種相關機轉，最早在 2008 年本實驗室曾發表 Oct-4 之表現與肺癌幹細胞之自我分化、更新與抗輻射治療相關。我們也發現肺癌幹細胞對於 H2O2 及傳統化學藥物具有抗藥性，而且是透過 HSP27-p38MAPK-MAPKAP2 之傳導途徑，利用 quercetin, HSP27 之抑制劑，加上傳統肺癌治療藥物，在細胞及動物實驗均可以增強肺癌之治療效果。但真正影響肺癌幹細胞抗藥性之機轉仍有待研究。我們實驗室最近之進一步研究 Collagen XVII 在肺癌幹細胞之重要性，Collagen XVII 為一種細胞膜間之蛋白質，功能在維繫細胞與細胞之連接，並且也是一種表面受體(receptor)，發現 Collagen XVII 及 laminin-5 與肺癌細胞之 EMT(epithelial-mesenchymal transition)及轉移有關，並且是透過活化 FAK/AKT/GSK3 訊息途徑，造成抑制 Snail 的分解。			
五年內 代表著作:	<ol style="list-style-type: none"> Po-Kuei Hsu, Ling-I Chien, Chih-Hung Lin, Yi-Chen Yeh, Cheng-Yen Chuang, Han-Shui Hsu, Yu-Chung Wu, Chung-Ping Hsu. Impact of perineural invasion as a histopathological prognostic factor in ypStage II/III oesophageal squamous cell carcinoma. Eur J Cardiothorac Surg. 2019 May 1;55(5):927-933. Chou KT, Cheng SC, Huang SF, Perng DW, Chang SC, Chen YM, Hsu HS, Hung SC. Impact of Intermittent Hypoxia on Sepsis Outcomes in a Murine Model. Sci Rep. 2019 Sep 9;9(1):12900. doi: 10.1038/s41598-019-49381-w. Chen-Chi Liu, Kun-Ta Chou, Jyuan-Wei Hsu, Jiun-Han Lin, Tien-Wei Hsu, David Hung-Tsang Yen, Shih-Chieh Hung, Han-Shui Hsu*. High metabolic rate and stem cell characteristics of esophageal cancer stem-like cells depend on the Hsp27-AKT-HK2 pathway. Int J Cancer. 2019 Oct 15;145(8):2144-2156. Yi-Ying Lee, Po-Kuei Hsu, Chien-Sheng Huang, Yu-Chung Wu and Han-Shui Hsu. Complications after Chest Tube Removal and Reinterventions in Patients with Digital Drainage Systems. J Clin Med. J Clin Med. 2019 Dec 1;8(12):2092. Cheng IY, Liu CC, Lin JH, Hsu TW, Hsu JW, Li AF, Ho WC, Hung SC, Hsu HS*. Particulate matter increases the severity of bleomycin-induced pulmonary fibrosis through KC-mediated neutrophil chemotaxis. Int J Mol Sci. 2020 Jan; 21(1): 227. Han-Shui Hsu, Chen-Chi Liu, Jiun-Han Lin, Tien-Wei Hsu, Jyuan-Wei Hsu, Anna Fen-Yau Li, Shih-Chieh Hung. Involvement of Collagen XVII in Pluripotency Gene Expression and Metabolic Reprogramming of Lung Cancer Stem Cells. J Biomed Sci. 2020 Jan 13;27(1):5. doi: 10.1186/s12929-019-0593-y. 			

7. Hsu CP, Chuang CY, Hsu PK, Chien LI, Lin CH, Yeh YC, **Hsu HS**, Wu YC. Lymphovascular Invasion as the Major Prognostic Factor in Node-Negative Esophageal Cancer After Primary Esophagectomy. *J Gastrointest Surg.* 2020 Jul;24(7):1459-1468.
8. Lin CM, Tu CC, Yeh YC, Hsu PK, Chien LI, Huang CS, Wu YC, **Hsu HS**. The Prognostic Impact of Extracapsular Lymph Node Involvement in Esophageal Squamous Cell Carcinoma. *Ann Surg Oncol.* 2020 Aug;27(8):3071-3082.
9. Liu CY, Hsu PK, **Hsu HS**, Wu YC, Chuang CY, Lin CH, Hsu CP. Prognostic 29 impact of circumferential resection margin in esophageal cancer with or without neoadjuvant chemoradiotherapy. *Dis Esophagus.* 2020 Sep 4;33(9):doz114.
10. Lin YH, Chen CK, Hsieh CC, Hsu WH, Wu YC, Hung JJ, Hsu PK, **Hsu HS***. Lymphadenectomy is Unnecessary for Pure Ground-Glass Opacity Pulmonary Nodules. *J Clin Med.* 2020 Mar 2;9(3):672.
11. Huang CS, Hsu PK, Chen CK, Yeh YC, **Hsu HS**, Shih CC, Huang BS. Surgeons' preference sublobar resection for stage I NSCLC less than 3 cm. *Thorac Cancer.* 2020 Apr;11(4):907-917.
12. Hung CT, Chen CK, Chang YY, Hsu PK, Hung JJ, Huang CS, Wu YC, **Hsu HS**. Electromagnetic navigation-guided versus computed tomography-guided percutaneous localization of small lung nodules before uniportal video-assisted thoracoscopic surgery: a propensity score-matched analysis. *Eur J Cardiothorac Surg.* 2020 Aug 1;58(Supplement_1):i85-i91
13. Chang CJ, Chiang LL, Chen KY, Feng PH, Su CL, **Hsu HS***. High-Flow Nasal Cannula versus Noninvasive Positive Pressure Ventilation in Patients with Heart Failure after Extubation: An Observational Cohort Study. *Can Respir J.* 2020 Jul 3;2020:6736475.
14. Inciong JFB, Chaudhary A, **Hsu HS**, Joshi R, Seo JM, Trung LV, Ungpinitpong W, Usman N. Hospital malnutrition in northeast and southeast Asia: A systematic literature review. *Clin Nutr ESPEN.* 2020 Oct;39:30-45.
15. Hung HY, Tseng YH, Chao HS, Chiu CH, Hsu WH, **Hsu HS**, Wu YC, Chou TY, Chen CK, Lan KL, Chen YW, Wu YH, Chen YM. Multidisciplinary team discussion results in survival benefit for patients with stage III non-small-cell lung cancer. *LoS One.* 2020 Oct 8;15(10):e0236503.
16. Lin YH, **Hsu HS***. Ground glass opacity on chest CT scans from screening to treatment: A literature review. *J Chin Med Assoc.* 2020 Oct;83(10):887-890.
17. Hsu PK, Yeh YC, Chien LI, Huang CS, **Hsu HS**. Clinicopathological Significance of Pathologic Complete Lymph Node Regression After Neoadjuvant Chemoradiotherapy in Esophageal Squamous Cell Carcinoma. *Ann Surg Oncol.* 2020 Nov 20. doi: 10.1245/s10434-020-09363-z. Online ahead of print.
18. Huang CS, Chien HC, Chen CK, Yeh YC, Hsu PK, Chen HS, Hsieh CC, **Hsu HS**, Huang BS, Shih CC. Significance of preoperative biopsy in radiological solid-dominant clinical stage I non-small-cell lung cancer. *Interact Cardiovasc Thorac Surg.* 2020 Dec 17;ivaa297. doi: 10.1093/icvts/ivaa297. Online ahead of print.
19. Tsai PC, Hsu PK, Yeh YC, Chen CK, Chang YY, Huang CS, **Hsu HS**. Active surveillance or early resection for ground-glass nodules that need preoperative localization. *J Surg Oncol.* 2021 Jan;123(1):322-331.
20. Yi-Chung Chen, Yi-Han Lin, Hung-Che Chien, Po-Kuei Hsu, Jung-Jyh Hung, Chien-Sheng Huang, Chih-Cheng Hsieh, Wen-Hu Hsu, **Han-Shui Hsu***. Preoperative Consolidation-to-tumor ratio is effective in the prediction of lymph node metastasis in patients with pulmonary ground-glass component nodules. *Thorac Cancer.* 2021 Apr;12(8):1203-1209.
21. Hsin-Hsien Li, Chen-Chi Liu, Tien-Wei Hsu, Jiun-Han Lin, Jyuan-Wei Hsu, Anna Fen-Yau Li, Yi-Chen Yeh, Shih-Chieh Hung, and **Han-Shui Hsu***. Upregulation of ACE2 and TMPRSS2 by particulate matter and idiopathic pulmonary fibrosis: a potential role in severe COVID-19. *Part Fibre Toxicol.* 2021 Mar 11;18(1):11.
22. Chan LY, Wang LC, **Hsu HS***. Silent Angiomatoid Fibrous Histiocytoma of the Chest Wall. *Ann Thorac Surg.* 2021 May;111(5):e347-e348. doi: 10.1016/j.athoracsur.2020.08.063. Epub 2020 Nov 4. D: 33159863
23. Lin PY, Yen YT, Lam CT, Li KC, Lu MJ, **Hsu HS***. Use of modified-NUTRIC score to assess nutritional risk in surgical intensive care unit. *J Chin Med Assoc.* 2021 Jun 8. doi: 10.1097/JCMA.0000000000000565. Online ahead of print. PMID: 34108425
24. Po-Kuei Hsu, Ling-I Chien, Chien-Sheng Huang, Yi-Chen Yeh, Pin-I Huang, Ming-Huang Chen, Sheng-Yu Chen, Chueh-Chuan Yen, **Han-Shui Hsu**. ASO Visual Abstract: Treatment Patterns and Outcomes for Patients with Esophageal Cancer-An Analysis of a Multidisciplinary Tumor Board Database. *Ann Surg Oncol.* 2022 Jan;29(1):572-585. doi: 10.1245/s10434-021-10568-z. Epub 2021 Aug 13.
25. Hui-Chun Chang, Chung-Han Ho, Shu-Chen Kung, Wan-Lin Chen, Ching-Min Wang, Kuo-Chen Cheng, Wei-Lun Liu, **Han-Shui Hsu**. Maintenance of low driving pressure in patients with early acute respiratory distress syndrome significantly affects outcomes. *Respir Res.* 2021 Dec 15;22(1):313. doi: 10.1186/s12931-021-01912-8

研究室成員：

專任研究助理：林俊瀚、許恬瑋、洪緯佳