陳琦媛(Chi-Yuan Chen)

職稱：教授

主要學歷：陽明大學口腔醫學生物所博士

分機號碼：5113

電子郵件帳號：d49417002@gmail.com

研究室：癌症轉譯醫學

研究室成員：研究生 3 人/專任助理 3 人

研究專長：Oncology、Precision Health、Translational research

研究概要:

本實驗室研究主軸為探討癌症抗藥性產生機轉並篩選具活性之藥物運用於治療。研究策略是藉由建立的各式癌細胞株平台探討致癌機轉及篩選具抗癌活性的藥物，以動物小鼠做臨床前試驗模式，再經體學平台、生物資訊軟體與藥物基因圖譜資料庫分析癌化機制或藥物可能作用之基因或蛋白質圖譜；此外也將體學平台運用於生物標記開發，希冀達成有效改善癌症治療目標。

研究方向：

1. 探討癌症訊息傳導路徑及抗藥性產生機制。
2. 開發具抗癌活性的天然物。

最近研究主題:

1. 肺癌標靶藥物抗藥性產生機轉。
2. 運用天然物活性成分對抗肺癌標靶藥物抗藥性。
3. 研製細胞膜奈米劑型用於癌症靶向治療。

論文著作:五年內著作目錄 (selected papers)

1. Jia-You Fang, Kuo-Yen Huang, Tong-Hong Wang, Zih-Chan Lin, Chin-Chuan Chen, Sui-Yuan Chang, En-Li Chen, Tai-Ling Chao, Shuenn-Chen Yang, Pan-Chyr Yang, Chi-Yuan Chen* (2024 Apr). Development of nanoparticles incorporated with quercetin and ACE2-membrane as a novel therapy for COVID-19. *J Nanobiotechnology,* 12;22(1):169.本人為通訊作者.
2. Chin-Chuan Chen#, Chi-Yuan Chen#, Chau-Ting Yeh, Yi-Tsen Liu, Yann-Lii Leu, Wen-Yu Chuang, Yin-Hwa Shih, Li-Fang Chou, Tzong-Ming Shieh, Tong-Hong Wang (#These

authors have contributed equally to this work) **(**2023 Nov**).** Corylin Attenuates CCl4-Induced Liver Fibrosis in Mice by Regulating the GAS6/AXL Signaling Pathway in Hepatic Stellate Cells**.** *International Journal of Molecular Science***,** 24(23):16936. 本人為共同第一作者.

3. Tong-Hong Wang, Kuo-Yen Huang, Chin-Chuan Chen, Ya-Hsuan Chang, Hsuan-Yu Chen, Chuen Hsueh, Yi-Tsen Liu, Shuenn-Chen Yang, Pan-Chyr Yang, Chi-Yuan Chen* (2023 Jun). PM2.5 promotes lung cancer progression through activation of the AhR-TMPRSS2-IL18 pathway. *EMBO Molecular Medicine*, 15(6):e17014. 本人為通訊作者.
4. Tong-Hong Wang, Yann-Lii Leu, Chin-Chuan Chen, Hsin-Jung Li, Shuenn-Chen Yang, Kuo-Yen Huang, Chi-Yuan Chen* (2022 May). Psorachromene induces apoptosis and suppresses tumor growth in NSCLC cells harboring EGFR L858R/T790M/C797S. *Phytotherapy Research,* 36(5):2116. 本人為通訊作者.
5. Chin-Chuan Chen#, Chi-Yuan Chen#, Shu-Fang Cheng, Tzong-Ming Shieh, Yann-Lii Leu, Wen-Yu Chuang, Kuang-Ting Liu, Shir-Hwa Ueng, Yin-Hwa Shih, Li-Fang Chou, Tong-Hong Wang* (#These authors contributed equally to the work) (2021, Sep). Hydroxygenkwanin Increases the Sensitivity of Liver Cancer Cells to Chemotherapy by Inhibiting DNA Damage Response in Mouse Xenograft Models. *International Journal of Molecular Sciences* , 22(18):9766. 本人為共同第一作者.
6. Kuo-Yen Huang, Tong-Hong Wang, Chin-Chuan Chen, Yann-Lii Leu, Hsin-Jung Li, Cai-Ling Jhong, Chi-Yuan Chen* (2021, Aug). Growth Suppression in Lung Cancer Cells Harboring EGFR-C797S Mutation by Quercetin. *Biomolecules* , 11(9):1271. 本人為通訊作者.
7. Wei-Che Tseng#, Chi-Yuan Chen#, Ching-Yuh Chern#, Chu-An Wang, Wen- Chih Lee, Ying-Chih Chi, Shu-Fang Cheng, Yi-Tsen Kuo, Ya-Chen Chiu, Shih- Ting Tseng, Pei-Ya Lin, Shou-Jhen Liou, Yi-Chen Li, Chin-Chuan Chen*(# These authors contributed equally to this work) (2021, Apr). Targeting HR Repair as a Synthetic Lethal Approach to Increase DNA Damage Sensitivity by a RAD52 Inhibitor in BRCA2-Deficient Cancer Cells. *International Journal of Molecular Sciences* , 22(9):4422. 本人為共同第一作者.
8. Tong-Hong Wang, Chih-Ching Wu, Kuo-Yen Huang, Yann-Lii Leu, Shuenn-Chen Yang, Ci-Ling Chen, Chi-Yuan Chen* (2021, Jan). Integrated Omics Analysis of Non-Small-Cell Lung Cancer Cells Harboring the EGFR C797S Mutation Reveals the Potential of AXL as a Novel Therapeutic Target in TKI-Resistant Lung Cancer. *Cancers* , 13, 111. 本人為通訊作者.
9. Tong-Hong Wang, Chin-Chuan Chen, Yann-Lii Leu, Yun-Shien Lee, Jang-Hau Lian, Hsi-Lung Hsieh, Chi-Yuan Chen* (2020, Dec). Palbociclib induces DNA damage and inhibits DNA repair to induce cellular senescence and apoptosis in oral squamous cell carcinoma. *Journal of the Formosan Medical Association*, S0929-6646(20)30609. 本人為通訊作者.
10. Chi-Yuan Chen#, Jia-You Fang#, Chin-Chuan Chen#, Wen-Yu Chuang, Yann-Lii Leu, Shir-Hwa Ueng, Li-Shan Wei, Shu-Fang Cheng, Chuen Hsueh, Tong-Hong Wang* (#These authors have contributed equally to this work) (2020, Aug). 2-O- methylmagnolol, a magnolol derivative, suppresses hepatocellular carcinoma progression via inhibiting class I histone deacetylase expression. *Frontiers in Oncology*, 10:1319. 本人為共同第一作者.
11. Tong-Hong Wang, Chih-Ching Wu, Kuo-Yen Huang, Wen-Yu Chuang, Chuen Hsueh, Hsin-Jung Li, Chi-Yuan Chen* (2020, Apr). Profiling of subcellular EGFR interactome reveals hnRNP A3 modulates nuclear EGFR localization. *Oncogenesis*, 9:40. 本人為通訊作者.

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13. Yann-Lii Leu, Tong-Hong Wang, Chih-Ching Wu, Kuo-Yen Huang, Yu-Wen Jiang, Yi-Chiung Hsu*, Chi-Yuan Chen* (2020, Feb). Hydroxygenkwanin suppresses non-small cell lung cancer progression by enhancing EGFR degradation. *Molecules*, 25(4), 941. 本人為通訊作者.
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15. Tong-Hong Wang, Chin-Chuan Chen, Kuo-Yen Huang, Ya-Min Shih, Chi-Yuan Chen*. (2019, Nov). High levels of EGFR prevent sulforaphane-induced reactive oxygen species-mediated apoptosis in non-small-cell lung cancer cells. *Phytomedicine*, 64:152926. 本人為通訊作者.
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