CV Form

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個人簡歷 (No more than an A4 size paper)

Education/Training:

國立成功大學環境醫學研究所/博士

國立成功大學環境醫學研究所/碩士

中國醫藥大學營養學系/學士

Professional and Research Experience:

現職：臺北醫學大學臨床醫學研究所/教授

現職：臺北醫學大學部立雙和醫院研究部/院聘研究員

經歷: 臺北醫學大學臨床醫學研究所/副教授

經歷:臺北醫學大學部立雙和醫院腎臟內科/醫學研究員

經歷:臺北醫學大學臨床醫學研究所/助理教授

經歷:國立成功大學醫學院環境醫學研究所/博士後研究員

Awards and Honors:

1. 114 年度臺北醫學大學學術研究獎-研究論文傑出獎 (2026/03)
2. 榮獲 115 年新北市社會優秀青年 (2026/03)
3. 2025 年入選「全球前 2% 科學家名單」World's Top 2% Scientists (Updated science-wide author databases of standardized citation indicators) (2025/09)
4. 臺北醫學大學 113 年度教學優良教師 (2025/06)
5. 2020 年臺北醫學大學部立雙和醫院研究論文暨海報比賽佳作
6. 2019 年臺北醫學大學部立雙和醫院研究論文暨海報比賽佳作
7. 2017 年臺北醫學大學部立雙和醫院研究論文暨海報比賽佳作
8. 2016 年 EMBO conference travel award
9. 2016 年臺北醫學大學部立雙和醫院研究論文暨海報比賽第一名
10. 2016 年第七屆全國臨床醫學研究所聯合教學研究研討會壁報比賽優選
11. 2015 年臺北醫學大學部立雙和醫院研究論文暨海報比賽第二名
12. 2011 年國立成功大學優秀論文競賽優勝
13. 2010 年國立成功大學優秀論文競賽優勝

Selected Publications:

(1) R-Y Su, H-C Chuang, C-M Zheng, L-J Ho, Y-J Chen, Y-H Lee* and **H-W Chiu***. Urban particulate matter induces NLRP3/NLRP6 inflammasomes, autophagy, senescence and fibrotic responses by increasing CSF2 signaling in kidney cells. ***Free Radical Biology & Medicine*** 249, 1-13 (2026) (IF: **8.2**. Subject Category: 14/191=7.3% in Endocrinology & Metabolism, JCR 2024) (**Corresponding author**)

(2) C-T Liao, Y-C Lin, H-J Huang, W-C Liu*,W-C Kan* and **H-W Chiu***. Docking and database screening identify manidipine as a potential modulator of matrix metalloproteinase-7 in chronic kidney disease. ***Biomedicine & Pharmacotherapy*** 193, 118748 (2025) (IF: **7.5**. Subject Category: 19/352=5.4% in Pharmacology & Pharmacy, JCR 2024) (**Corresponding author**)

(3) H-Y Lin, W-K Wang, C-H Lin, C-H Kuei, H-H Lee, Y-H K Lin, **H-W Chiu*** and Y-F Lin*. The IL-8/NF-κB feedback loop confers a paclitaxel-sensitive/doxorubicin-resistant phenotype in triple-negative breast cancer. ***Free Radical Biology & Medicine*** 238, 316-328 (2025) (IF: **8.2**. Subject Category: 14/191=7.3% in Endocrinology & Metabolism, JCR 2024) (**Corresponding author**)

(4) **H-W Chiu**, C-C Shih, H-J Huang, T-H Huang and L-C Sung*. Cilostazol attenuates vascular inflammation via the regulation of TICAM1/IRF3 signaling pathway. ***Biomedicine & Pharmacotherapy*** 189, 118275 (2025) (IF: **7.5**. Subject Category: 19/352=5.4% in Pharmacology & Pharmacy, JCR 2024) **(First author)**

(5) Y-L Wang[#], Y-C Lin[#], W-C Liu, Y-H Lee[*] and **H-W Chiu**[*]. Air pollution and its impacts on health: Focus on microplastics and nanoplastics. ***Ecotoxicology and Environmental Safety*** 299, 118402 (2025) (IF: **6.1**. Subject Category: 10/106=9.4% in Toxicology, JCR 2024) (**Corresponding author**)

(6) Y-H Lee, C-M Zheng, Y-J Wang, Y-L Wang and **H-W Chiu***. Effects of microplastics and nanoplastics on the kidney and cardiovascular system. ***Nature Reviews Nephrology*** 21, 585–596 (2025) (IF: **39.8**, 2/133=1.5% in Urology & Nephrology, JCR 2024) (**Corresponding author**) 「**Cover**」

(7) **H-W Chiu**, C-W Chu, C-C Huang, Z-C Chia, Y-L Wang, Y-H Lee*. Polystyrene microplastics induce hepatic lipid metabolism and energy disorder by upregulating the NR4A1-AMPK signaling pathway. ***Environmental Pollution*** 369,125850 (2025) (IF: **7.3**. Subject Category: 46/374=12.3% in Environmental Sciences, JCR 2024) **(First author)**

(8) **H-W Chiu**[#], K-C Lu[#], Y-C Lin, Y-C Hou, M-T Liao, Y-J Chen, Y-J Chiu and C-M Zheng*. Etelcalcetide ameliorates bone loss in chronic kidney disease-mineral and bone disorder by activation of IRF7 and necroptosis pathways. ***International Journal of Biological Macromolecules*** 280, 135978 (2024) (IF: **8.5**. Subject Category: 6/94=6.4% in Polymer Science, JCR 2024) **(First author)**

(9) **H-W Chiu**, C-L Chou, K-T Lee, C-C Shih, T-H Huang and L-C Sung*. Nattokinase attenuates endothelial inflammation through the activation of SRF and THBS1. ***International Journal of Biological Macromolecules*** 268, 131779 (2024) (IF: **8.5**. Subject Category: 6/94=6.4% in Polymer Science, JCR 2024) **(First author)** MOST 111-2314-B-038-030 and NSTC 112-2314-B-038-087

(10) Y-L Wang,Y-H Lee, C-L Chou,Y-S Chang, W-C Liu and **H-W Chiu***. Oxidative stress and potential effects of metal nanoparticles: a review of biocompatibility and toxicity concerns. ***Environmental Pollution*** 346, 123617 (2024) (IF: **7.3**. Subject Category: 46/374=12.3% in Environmental Sciences, JCR 2024)(**Corresponding author**)

(11) Y-L Wang[#], C C-Y Huang, C-M Zheng, W-C Liu, Y-H Lee[#] and **H-W Chiu***. Polystyrene microplastic-induced extracellular vesicles cause kidney-related effects in the crosstalk between tubular cells and fibroblasts. ***Ecotoxicology and Environmental Safety*** 273, 116098 (2024) (IF: **6.1**. Subject Category: 10/106=9.4% in Toxicology, JCR 2024) (**Corresponding author**)

(12) **H-W Chiu**[#],H-L Lee, H-H Lee, H-W Lu, Y-H K Lin, Y-F Lin[#] and C-H Lin*. AIM2 promotes irradiation resistance, migration ability and PD-L1 expression through STAT1/NF-κB activation in oral squamous cell carcinoma. ***Journal of Translational Medicine*** 22, 13 (2024) (IF: **7.5**. Subject Category: 24/195=12.3% in Medicine, Research & Experimental, JCR 2024) **(First author)**

(13) Y-H Wu[#], R-J Chen[#], **H-W Chiu**, L-X Yang, Y-L Wang, Y-Y Chen, Y-L Yeh, M-Y Liao* and Y-J Wang*. Nanoparticles augment the therapeutic window of RT and immunotherapy for treating cancers: pivotal role of autophagy. ***Theranostics*** 13, 40-58 (2023). (IF: **13.3**. Subject Category: 7/195=3.6% in Medicine, Research & Experimental, JCR 2024)

(14) C-M Zheng, K-C Lu, Y-J Chen, C-Y Li, Y-H Lee* and **H-W Chiu***. Matrix metalloproteinase-7 promotes chronic kidney disease progression via the induction of inflammasomes and the suppression of autophagy. ***Biomedicine & Pharmacotherapy*** 154, 113565 (2022). (IF: **7.5**. Subject Category: 19/352=5.4% in Pharmacology & Pharmacy, JCR 2024) (**Corresponding author**)

(15) Y-L Wang[#], Y-H Lee, Y-H Hsu, I-J Chiu, C C-Y Huang, C-C Huang, Z-C Chia, C-P Lee, Y-F Lin[#] and **H-W Chiu***. The kidney-related effects of polystyrene microplastics on human kidney proximal tubular epithelial cells HK-2 and male C57BL/6 mice. ***Environmental Health Perspectives*** 129, 57003 (2021) (IF: **9.8**. Subject Category: 3/106=2.8% in Toxicology, JCR 2024) (**Corresponding author**)

(16) Y-F Lin[#], J-L Chou, J-S Chang, I-J Chiu, **H-W Chiu**[#], and Y-F Lin*. Dysregulation of the miR-25-IMPA2 axis promotes metastatic progression in clear cell renal cell carcinoma. ***EBioMedicine***45, 220-230(2019). (IF: **10.8**. Subject Category: 13/195=6.7% in Medicine, Research & Experimental, JCR 2024) **(First author)**

(17) Y-H Hsu[#], H-C Chuang, Y-H Lee, Y-F Lin, Y-J Chen, T-C Hsiao, M-Y Wu[#] and **H-W Chiu***. Traffic-related particulate matter exposure induces nephrotoxicity *in vitro* and *in vivo*. ***Free Radical Biology & Medicine*** 135, 235-244 (2019) (IF: **8.2**. Subject Category: 14/191=7.3% in Endocrinology & Metabolism, JCR 2024) **(Corresponding author)**

(18) Y-H Wu[#], W-S Wu, L-C Lin, C-S Liu, S-Y Ho, B-J Wang, B-M Huang, Y-L Yeh, **H-W Chiu**[#], W-L Yang* and Y-J Wang*. Bortezomib enhances radiosensitivity in oral cancer through inducing autophagy-mediated TRAF6 oncoprotein degradation. ***Journal of Experimental & Clinical Cancer Research*** 37:91 (2018). (IF: **12.8**. Subject Category: 22/326=6.7% in Oncology, JCR 2024) **(First author)**

(19) Y-HWu, C-W Hong,Y-C Wang, W-J Huang, Y-L Yeh, B-J Wang, Y-J Wang* and **H-W Chiu***. A novel histone deacetylase inhibitor TMU-35435 enhances etoposide cytotoxicity through the proteasomal degradation of DNA-PKcs in triple-negative breast cancer. ***Cancerletters*** 400:79-88(2017).(IF: **10.1**. Subject Category: 30/326=9.2% in Oncology, JCR 2024). **(Corresponding author)**

(20) **H-W Chiu**, Y-L Yeh, Y-C Wang, W-J Huang, S-Y Ho,P Lin and Y-J Wang. Combination of the novel histone deacetylase inhibitor YCW1 and radiation induces autophagic cell death through the downregulation of BNIP3 in triple-negative breast cancer cells *in vitro* and in an orthotopic mouse model. ***Molecular Cancer*** 15(1):46 (2016). (IF: **33.9**. Subject Category: 4/319=1.3% in Biochemistry & Molecular Biology, JCR 2024) **(First author)**

(21) **H-W Chiu**, S-W Lin,L-C Lin,Y-H Hsu, Y-F Lin, S-Y Ho,Y-H Wu, and Y-J Wang. Synergistic antitumor effects of radiation and proteasome inhibitor treatment in pancreatic cancer through the induction of autophagy and the downregulation of TRAF6. ***Cancerletters*** 365:229-239(2015).(IF: **10.1**. Subject Category: 30/326=9.2% in Oncology, JCR 2024) **(First author)**

(22) **H-W Chiu**, Y-C Tseng,Y-H Hsu, Y-F Lin, N-P Foo, H-R Guo and Y-J Wang. Arsenic trioxide induces programmed cell death through stimulation of ER stress and inhibition of ubiquitin-proteasome system in human sarcoma cells. ***Cancerletters*** 356: 762-772(2015).(IF: **10.1**. Subject Category: 30/326=9.2% in Oncology, JCR 2024) **(First author)**

(23) Y-H Lee, F-Y Cheng,**H-W Chiu**, J-C Tsai,C-Y Fang, C-W Chen and Y-J Wang. Cytotoxicity, oxidative stress, apoptosis and the autophagic effects of silver nanoparticles in mouse embryonic fibroblasts. ***Biomaterials***35:4706-4715(2014). (IF:**12.9**. Subject Category: 5/124=4.0% in Engineering, Biomedical, JCR 2024)

(24) **H-W Chiu**, J-H Lin, Y-A Chen, S-Y Ho and Y-J Wang. Combination treatment with arsenic trioxide and irradiation enhances cell-killing effects in human fibrosarcoma cells *in vitro* and *in vivo* through induction of both autophagy and apoptosis. ***Autophagy***. 6: 353-365 (2010). (IF: **14.3**. Subject Category: 16/204=7.8% in Cell Biology, JCR 2024) **(First author)**

(25) **H-W Chiu**, S-Y Ho, H-R Guo and Y-J Wang. Combination treatment with arsenic trioxide and irradiation enhances autophagic effects in U118-MG cells through increased mitotic arrest and regulation of PI3K/Akt and ERK1/2 signaling pathways. ***Autophagy***. 5:472-483 (2009). (IF: **14.3**. Subject Category: 16/204=7.8% in Cell Biology, JCR 2024) **(First author)**