

王應然

Ying-Jan Wang, Ph.D.



現職： 國立成功大學醫學院工業衛生學科暨環境醫學研究所特聘教授

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學歷

國立台灣大學生化學暨分子生物學所博士 (1991/09 至 1995/05)

國立台灣大學生化學暨分子生物學所碩士 (1990/09 至 1991/06)

高雄醫學大學藥學系學士 (1981/09 至 1985/06)

經歷

國立成功大學醫學院工業衛生學科暨環境醫學研究所特聘教授 (2017 迄今)

國立成功大學醫學院工業衛生學科暨環境醫學研究所教授 (2009 至 2017)

國立成功大學醫學院工業衛生學科暨環境醫學研究所副教授 (2003 至 2009)

國立成功大學醫學院工業衛生學科暨環境醫學研究所助理教授 (1998 至 2003)

美國德州大學 M.D. Anderson 癌症中心分子與細胞腫瘤研究所訪問學者 (2013/03 至 07)

獎項及榮譽

1. 2020 年世界前 2%的頂尖科學家
2. 國立成功大學特聘教授 2017-2020、2020-2023
3. 2019 年亞太生物與醫學科學學會 (APSBMS) 傑出成就獎

研究成果

1. B-H Mao, Y-K Luo, B-J Wang, C-W Chen, F-Y Cheng, Y-H Lee, S-J Yan* and **Y-J Wang***. Use of an In silico Knowledge Discovery Approach to Determine Mechanistic Studies of Silver Nanoparticles-induced Toxicity from In vitro to In vivo. **Particle and Fibre Toxicology 19:6 (2022)**
2. Y-Y Chen, Y-H Lee, B-J Wang, R-J Chen* and **Y-J Wang***. Skin Damage Induced by Zinc Oxide Nanoparticles Combined with UVB is Mediated by Activating Cell Pyroptosis via the NLRP3 Inflammasome-Autophagy-Exosomal Pathway. **Particle and Fibre Toxicology 19:2 (2022)**
3. Z-Y Chen, Y-C Su, F-Y Cheng, S-J Yan* and **Y-J Wang***. Lifetime bioaccumulation of silver nanoparticles accelerates functional aging by inactivating antioxidant pathways, an effect reversed by pterostilbene. **Environmental Science: Nano 8: 3774 (2021)**
4. 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*; **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)**
5. R-J Chen, P-H Wu, C-T Ho, T-D Way, M-H Pan, H-M Chen, Y-S Ho, **Y-J Wang***. P53-dependent Down-regulation of hTERT Protein Expression and Telomerase Activity Induces Senescence in Lung Cancer Cells by Pterostilbene Treatment. **Cell Death**

Disease 8(8): e2985 (2017)

6. **Y-J Wang**, J-F Lin, L-H Cheng, W-T Chang, Y-H Kao, M-M Chang, B-J Wang and H-C Cheng. Pterostilbene prevents AKT-ERK axis-mediated polymerization of surface fibronectin on suspended lung cancer cells independently of apoptosis and suppresses metastasis. ***Journal Hematology Oncology 10:72-85 (2017)***.
7. 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 15:46. (2016)***
8. 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(16):4706-4715 (2014)***
9. **Wang, Y.-J.**, Chang, H., Kuo, Y.-C., Wang, C.-K., Siao, S.-H., Chang, L. W. and Lin, P. Synergism between 2,3,7,8- tetrachlorodibenzo-p-dioxin and 4-(methylNitrosamino)-1-(3-pyridyl)-1-butanone on lung tumor incidence in mice. ***J. Hazardous Materials 186: 869-875 (2011)***
10. 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)***
11. 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)***