Dr. Chin-Chuan Chen

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Research Interests:

1. DNA repair, genome stability and cancer

2. Aging and aging-associated diseases

Selected Publications:

1. Chen CC, Chen CY, Wang SH, Yeh CT, Su SC, Ueng SH, Chuang WY, Hsueh C, Wang TH. Melatonin Sensitizes Hepatocellular Carcinoma Cells to Chemotherapy Through Long Non-Coding RNA RAD51-AS1-Mediated Suppression of DNA Repair. (2018) **Cancers** (Basel). 10;10(9)
2. Chen CC, Chen CY, Ueng SH, Hsueh C, Yeh CT, Ho JY, Chou LF, Wang TH. Corylin increases the sensitivity of hepatocellular carcinoma cells to chemotherapy through long noncoding RNA RAD51-AS1-mediated inhibition of DNA repair. (2018) **Cell Death Dis.** 1;9(5):543
3. Huang TH, Fowler F, Chen CC, Shen ZJ, Sleckman B, Tyler JK. The Histone Chaperones ASF1 and CAF-1 Promote MMS22L-TONSL-Mediated Rad51

Loading onto ssDNA during Homologous Recombination in Human Cells. (2018) **Mol Cell.** 1;69(5):879-892.e5. doi: 10.1016/j.molcel

4. Chen CY, Chen CC, Shieh TM, Hsueh C, Wang SH, Leu YL, Lian JH, Wang TH. Corylin Suppresses Hepatocellular Carcinoma Progression via the Inhibition of Epithelial-Mesenchymal Transition, Mediated by Long Noncoding RNA GAS5. (2018) **Int J Mol Sci**. 19(2), 380. doi: 10.3390/ijms19020380
5. Chen CC, Huang JS, Wang TH, Kuo CH, Wang CJ, Wang SH, Leu YL. Dihydrocoumarin, an HDAC Inhibitor, Increases DNA Damage Sensitivity by Inhibiting Rad52. (2017) **Int J Mol Sci**. 18(12),2655. doi: 10.3390/ijms18122655
6. Chen CC, Kao CP, Chiu MM, Wang SH. The anti-cancer effects and mechanisms of Scutellaria barbata D. Don on CL1-5 lung cancer cells. (2017) **Oncotarget**. 8:109340-109357 doi: 10.18632/oncotarget.22677
7. Yeh CJ, Chen CC (co-first), Leu YL, Lin MW, Chiu MM, Wang SH. The effects of artocarpin on wound healing: in vitro and in vivo studies. (2017) **Scientific reports**; 7(1):15599. doi: 10.1038/s41598-017-15876-7
8. Wang TH, Chen CC, Liang KH, Chen CY, Chuang WY, Ueng SH, Chu PH, Huang CG, Chen TC, Hsueh C. A Multivariate Evaluation of Factors Affecting the Quality of Freshly Frozen Tissue Specimens. (2017) **Biopreservation and Biobanking**,15(4):344-349
9. Chen CC, Liang CJ, Leu YL, Chen YL, Wang SH. Viscolin Inhibits *In Vitro* Smooth Muscle Cell Proliferation and Migration and Neointimal Hyperplasia *In Vivo.* (2016) **PLoS one** 11(12): e0168092. doi:10.1371/journal.pone.0168092
10. Chen CC, Lin MW, Liang CJ, Wang SH. The Anti-Inflammatory Effects and Mechanisms of Eupafolin in Lipopolysaccharide-Induced Inflammatory Responses in RAW264.7 Macrophages. (2016) **PLoS One**. 11(7):e0158662. doi: 10.1371/journal.pone.0158662
11. Wang SH, Lin PY, Chiu YC, Huang JS, Kuo YT, Wu JC, *Chen CC**. Curcumin-Mediated HDAC Inhibition Suppresses the DNA Damage Response and Contributes to Increased DNA Damage Sensitivity. (2015) **PLoS One**. 10(7):e0134110. doi: 10.1371/journal.pone.0134110
12. Hu Z, Chen K, Xia Z, Chavez M, Pal S, Seol JH, *Chen CC*, Li W, Tyler JK. Nucleosome loss leads to global transcriptional up-regulation and genomic instability during yeast aging. (2014) **Genes & Development**, 15;28(4):396-408

13. *Chen, C-C*. & Tyler, J. K. Selective sensitization of cancer cells to DNA damage by a HAT inhibitor. (2009) **Cell Cycle** 8(18).

14. *Chen, C-C*. & Tyler, J. K. Chromatin assembly signals the end of repair. (2008) **Cell Cycle**, 7, 3792-7.

15. *Chen, C-C*., Carson, J., Feser, J., Tamburini, B., Zabaronick, S., Linger, J. & Tyler, J. K. Acetylation of lysine 56 on histone H3 drives chromatin assembly after repair and signals for the completion of double-strand DNA repair. (2008) **Cell**, 134, 231-43.

Patents:

1. **陳金銓**,呂彥禮,黃聰龍,方嘉佑,潘台龍 ACTIVATOR OF MAMMALIAN SIRT1 中華民國專利 1556818 (2016)
2. 陳金銓,呂彥禮,王淑慧哺乳類 TOR 抑制劑中華民國 I 586351 (2017)
3. 陳金銓,呂彥禮,王淑慧哺乳類 TOR 抑制劑美國 US 9,795,588 B2 (2017)

Departmental Retreat 2014

Farewell party 2014

Farewell party 2015

Birthday party 2015

Farewell party 2016

Departmental Retreat 2016

Farewell party 2017

Farewell party 2018