



## Liao, Jiunn-Wang

**Title:** Professor

**Research Specialty:**

Genetic and toxicopathology

**Courses Taught:**

Undergraduate: Vet. pathology, poisoning, swine disease

Graduate: Toxicologic pathology, Tumor biopsy

Tel: 04-22840894 ext 408

E-mail : jwliao@dragon.nchu.edu.tw

### Educational Background

Ph.D., Department of Veterinary Medicine, National Taiwan University (1996-2000)

MS, Department of Veterinary Medicine, National Chung Hsing University (1991-1993)

BS, Department of Veterinary Medicine, National Chung Hsing University (1986-1989)

AS, Department of Veterinary Medicine, National Chiayi Institute of Agriculture (1977-1983)

### Professional Career and Honors

Professor and Director, Animal Disease Diagnostic Center, National Chung Hsing University (2016/2-)

Professor and Director, Graduate Institute of Veterinary Pathobiology, National Chung Hsing University (2012/8-2015/7)

Distinguished Professor Award, National Chung Hsing University (2011/8-2013/7)

Professor, Graduate Institute of Veterinary Pathobiology, National Chung Hsing University (2010/8-)

Associate Professor, Graduate Institute of Veterinary Pathobiology, National Chung Hsing University (2007/2-2010/7)

Assistant Professor, Graduate Institute of Veterinary Pathology, National Chung Hsing University (2005-2007)

Research Assistant - Associate Researcher, Applied Toxicology Department, Taiwan Agricultural Chemicals and Toxic Substances Research Institute (1989-2004)

### Research Interests

Food, chemical and medical's genetic and lab animal toxicology

Toxicopathology in laboratory animals, and Veterinary pathology

### Selected Publications (2022-2023)

1. Tsai SC, Farn SS, Lo WL, Ou Yang FU, Kang YC, Chen LC, Chen KT, Liao JW, Kung JY, Chen JT, and Huang FU\*. Evaluation of chelator-to-antibody ratio on development of 89Zr-iPET tracer for imaging of PD-L1 expression on tumor. International Journal of Molecular Sciences. 2023, 24(24), 17132.
2. Thi Vo TL, Cai XM, Liao JW, Huang LG, Chen CL, Wu CH,\* and Song TY\*. Safety assessment and hepatic-renal protection of *Cajanus cajan* (L.) Millsp. root and its soy isoflavone contents. Nutrients. 2023 Sep 13;15(18):3963.
3. Hsu TH, Wu TJ, Tai YA, Huang CS, Liao JW, Yeh SL.\* The combination of quercetin and leucine synergistically improves grip strength by attenuating muscle atrophy by multiple mechanisms in mice exposed to cisplatin. PLoS One. 2023 Sep 12;18(9):e0291462.
4. Su YH, Wu JS, Dai YZ, Chen YT, Lin YX, Tzeng YM\*, Liao JW\*. Anti-oxidant, anti-mutagenic activity and safety evaluation of antrocin. Toxics. 2023 Jun 20;11(6):547.
5. Yang HL, Chiu LW, Lin YA, Pandey S, Vadivalagan C, Liao JW, Gowrisankar YV, Chen HJ\*, Lin HY\*, and Hseu YC\*. 2023. In vitro and in vivo anti-tumor activity of Coenzyme Q0 against TWIST1-overexpressing HNSCC cells: ROS-mediated inhibition of EMT/metastasis and autophagy/apoptosis induction. Toxicology and Applied Pharmacology. 2023 Apr 15;465:116453

6. Hsu CF, Liu HM, Peir JJ, Liao JW, Chen KS, Chen YW, Chuang YJ, Chou FI. \* Therapeutic efficacy and radiobiological effects of boric-acid-mediated BNCT in an osteosarcoma-bearing SD rat model. *Life* 2023, 13(2), 514.
7. Ardanawati K, Lowisia W, Soedarini B, Liao JW, Chung YC\*. Jaboticaba (*Myrciaria cauliflora*) fruit extract suppressed aberrant crypt formation in 1,2-dimethylhydrazine-induced rats. *Plant Foods for Human Nutrition*. 2023 Jun;78(2):286-291
8. Divate NR, Ardanawati K, Yu YP, Chen YC, Liao JW, Chung YC.\* Effects of soybean and tempeh water extracts on regulation of intestinal flora and prevention of colon precancerous lesions in rats. *Processes* 2023, 11, 257. 12 pages.
9. Yang HL, Lin YA, Pandey S, Liao JW, Way TD, Yeh YL, Chen SJ, and Hseu YC\*. In vitro and in vivo anti-tumor activity of *Antrodia salmonea* against TWIST-overexpressing HNSCC cells: induction of ROS-mediated autophagic and apoptotic cell death, *Food and Chemical Toxicology*. 2023. 172: 113564.
10. Lin YP, Hseu YC, Thiagarajan V, Vadivalagan C, Pandey S, Lin KY, Hsu YT, Liao JW, Lee CC, Yang HL. The in vitro and in vivo anticancer activities of *Antrodia salmonea* through inhibition of metastasis and induction of ROS-mediated apoptotic and autophagic cell death in human glioblastoma cells. *Biomedicine and Pharmacotherapy*. 2023 Feb;158:114178.
11. Chang SC, Lin MJ, Lee CH, Lin LJ, Liao JW, Lee TT.\* Effects of angel wings on morphological and histological characteristics of White Roman geese. *Poultry Science*. 2023 May;102(5):102389.
12. Ganesan N, Chang YD, Hung SC, Lan JL, Liao JW, Fu ST, Lee CC.\* Mesenchymal stem cells suppressed skin and lung inflammation and fibrosis in topoisomerase I-induced systemic sclerosis associated with lung disease mouse model. *Cell and Tissue Research*. 2023 Feb;391(2):323-337
13. Lin YL, Liao JW, Wang SC, Sridharan B, Lee HJ, Li A, Wu CY, Huang SD, Chang KT, Agrawal DC, Chen CJ\*, and Lee MJ\*. Andrographolide relieves post-operative wound pain but affect local angiogenesis. *Pharmaceuticals* 2022, 15(12), 1586
14. Yang SE, Lin YF, Liao JW, Chen JT, Chen CL, Chen CI, Hsu SL, Song TY. \* Insulin sensitizer and antihyperlipidemic effects of *Cajanus cajan* (L.) millsp. root in methylglyoxal-induced diabetic rats. *Chinese Journal of Physiology*. May-Jun 2022;65(3):125-135.
15. Lin HY, Liao JW, Chen RS, Chang CH, Chang HW, Chang SC, Chu WS, Lin CK and Lin HT.\* Food safety assessment of commercial genetically modified soybeans in rats. *Foods* 2022, 11(4), 496.

Updated: 2024/1/1