



Name: Liao, Po-Lin

Job title: Assistant Professor, Institute of Food Safety and Health Risk Assessment

Education	2005/09-2010/06	Ph.D., Institute of Toxicology, National Taiwan University
Work Experience	2020/08-present	Assistant Professor, Institute of Food Safety and Health Risk Assessment, National Yang Ming Chiao Tung University
	2018/02-2020/07	Project Assistant Professor, Institute of Food Safety and Health Risk Assessment, National Yang-Ming University
	2017/08-2018/01	Post-Doctoral Fellowship, Department of Pharmaceutical Sciences, Taipei Medical University
	2011/08-2017/07	Post-Doctoral Fellowship, Institute of Toxicology, National Taiwan University
Research Specialization	Toxicology Toxicity Test Retinopathy	
Publications	<p>1. Chan YJ, Liao PL, Tsai CH, Cheng YW, Lin FL, Ho JD, Chen CY, Li CH (2021,Jan). Titanium dioxide nanoparticles impair the inner blood-retinal barrier and retinal electrophysiology through rapid ADAM17 activation and claudin-5 degradation. <i>Particle and Fibre Toxicology</i>, 18(1):4.</p> <p>2. Tsai CH, Fang TC, Liao PL, Liao JW, Chan YJ, Cheng YW, Li CH. (2020, Jul). The Powdered Root of <i>Eurycoma longifolia</i> Jack Improves Beta-Cell Number and Pancreatic Islet Performance through PDX1 Induction and Shows Antihyperglycemic Activity in db/db Mice. <i>Nutrients</i>, 16;12(7):2111.</p> <p>3. Liao PL, Wu CC, Chen TY, Tsai YC, Peng WS, Yang DJ, Kang JJ (2019, Dec). Toxicity Studies of <i>Lactobacillus plantarum</i> PS128TM Isolated from Spontaneously Fermented Mustard Greens. <i>Foods</i>, 8(12). pii: E668.</p> <p>4. Chen CY*, Liao PL*, Tsai CH, Chan YJ, Cheng YW, Hwang LL, Lin KH, Yen TL, Li CH. (2019, Oct). Inhaled gold nanoparticles cause cerebral edema and upregulate endothelial aquaporin 1 expression, involving caveolin 1 dependent repression of extracellular regulated protein kinase activity. <i>Particle and Fibre Toxicology</i>, 16(1):37.</p> <p>5. Tsai CH, Li CH*, Liao PL*, Chang YW, Cheng YW, Kang JJ. (2019, Oct). Aza-PBHA, a potent histone deacetylase inhibitor, inhibits human gastric-cancer cell migration via PKCα-mediated AHR-HDAC interactions. <i>Biochimica et Biophysica Acta - Molecular Cell Research</i>, 1867(2):118564.</p>	

6. Lin JT, Chang YY, Chen YC, **Liao PL**, Yang DJ. (2019, Jul). Litchi (*Litchi chinensis* Sonn.) flower proanthocyanidin fraction exhibited protective efficacy to suppress nickel-induced expression for vascular endothelial growth factor in HepG2 cells. *Journal of Food Biochemistry*, 43(7):e12882.
7. Chang YL, Lin JT, Lin HL, **Liao PL**, Wu PJ, and Yang DJ (2019, Mar). Phenolic compositions and antioxidant properties of leaves of eight persimmon varieties harvested in different periods. *Food Chemistry*, 289(15), 74-83.
8. Tse LS, **Liao PL**, Tsai CH, Li CH, Liao JW, Kang JJ, Cheng YW (2019, Mar). Glycemia Lowering Effect of an Aqueous Extract of *Hedychium coronarium* Leaves in Diabetic Rodent Models. *Nutrients*, 11(3). pii: E629.
9. Hsu HL, **Liao PL**, Cheng YW, Huang SH, Wu CH, Li CH, Kang JJ (2019, Jan). Chloramphenicol Induces Autophagy and Inhibits the Hypoxia Inducible Factor-1 Alpha Pathway in Non-Small Cell Lung Cancer Cells. *International Journal of Molecular Sciences*, 3;20(1). pii: E157.
10. **Liao PL**, Huang SH, Hung CH, Huang WK, Tsai CH, Kang JJ, Wang HP, Cheng YW (2019, Jan). Efficacy of Azatyrosine-Phenylbutyric Hydroxamides, a Histone Deacetylase Inhibitor, on Chemotherapy-Induced Gastrointestinal Mucositis. *International Journal of Molecular Sciences*, 20(2). pii: E249.
11. **Liao PL**, Li CH, Tse LS, Kang JJ, Cheng YW. (2018, Aug). Safety assessment of the *Cistanche tubulosa* health food product MemoregainR: Genotoxicity and 28-day repeated dose toxicity test. *Food and Chemical Toxicology*, 118:581-588.
12. Li CH, Liu CW, Tsai CH, Peng YJ, Yang YH, **Liao PL**, Lee CC, Cheng YW, Kang JJ. (2017, Mar). Cytoplasmic aryl hydrocarbon receptor regulates glycogen synthase kinase 3 beta, accelerates vimentin degradation, and suppresses epithelial–mesenchymal transition in non-small cell lung cancer cells. *Archives of Toxicology*, 91(5), 2165–2178.
13. **Liao PL**, Lin CH, Li CH, Tsai CH, Ho JD, Chiou GC, Kang JJ, Cheng YW. (2017, Mar). Anti-inflammatory properties of shikonin contribute to improved early-stage diabetic retinopathy. *Scientific Reports*, Mar 21;7:44985. MOST 102-2320-B-038-018-MY3.
14. Tsai CH, Li CH, Cheng YW, Lee CC, **Liao PL**, Lin CH, Huang SH, Kang JJ. (2017, Feb). The inhibition of lung cancer cell migration by AhR-regulated autophagy. *Scientific Reports*, Feb 14;7:41927. MOST 103-2320-B-002-047.
15. Tsai CH, Li CH, **Liao PL**, Cheng YW, Lin CH, Huang SH, Kang JJ (2015, Dec). NcoA2-Dependent Inhibition of HIF-1 α Activation Is Regulated via AhR. *Toxicological Sciences*, 148(2), 517-30.
16. Lin CH*, **Liao PL***, Hsiao G, Li CH, Huang SH, Tsai CH⁵, Wu MR, Lin FL, Ho JD, Cheng HW, Cheng YW. (2015, Oct). Long-term fluorometholone topical use induces ganglion cell damage in rats analyzed with optical coherence tomography. *Toxicological Sciences*, 147(2),317-25.
17. Liu CW, Li CH, Peng YJ, Cheng YW, Chen HW, **Liao PL**, Kang JJ, Yeng

- MH. (2014, Jun). Snail regulates Nanog status during the epithelial-mesenchymal transition via the Smad1/Akt/GSK3 β signaling pathway in non-small-cell lung cancer. *Oncotarget*, 5(11):3880-94.
18. Li CH, **Liao PL**, Yang YT, Huang SH, Lin CH, Cheng YW, Kang JJ. (2014, Mar). Minocycline accelerates hypoxia-inducible factor-1 alpha degradation and inhibits hypoxia-induced neovasculogenesis through prolyl hydroxylase, von Hippel-Lindau-dependent pathway. *Archives of Toxicology*, 88(3):659-71.
19. Li CH, Liao JW, **Liao PL**, Huang WK, Tse LS, Lin CH, Kang JJ, Cheng YW. (2013, Aug). Evaluation of Acute 13-Week Subchronic Toxicity and Genotoxicity of the Powdered Root of Tongkat Ali (*Eurycoma longifolia* Jack). *Evidence-Based Complementary and Alternative Medicine*, 2013(1-11).
20. Lin CH, Li CH, **Liao PL**, Tse LS, Huang WK, Cheng HW, Cheng YW (2013, Feb). Silibinin inhibits VEGF secretion and age-related macular degeneration in a hypoxia-dependent manner through the PI-3 kinase/Akt/mTOR pathway. *British Journal of Pharmacology*, 168(4), 920-31.
- * Equal Contribution