

**Name**

- Jer-Yuh Liu

**Title**

- Professor

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**Resume**

- Degree:
  - 1989-1993 Ph.D, Institute of Biochemistry, Medical College, National Taiwan University at Taipei, Taiwan. Thesis: Investigation of protein kinase C in carcinogenesis.
  - 1985-1987 M.Sc, Institute of Physiology, National Yang-Ming University at Taipei, Taiwan. Thesis: Effects of aging on the release of rat prolactin in response to thyrotropin-releasing hormone in vitro.
  - 1978-1982B. Sc, Animal Science, Tunghai University at Taichung, Taiwan.

- Employment:
  - 2016- Professor at Graduate Institute of Biomedical Science, China Medical University
  - 2009-2016 Professor at Graduate Institute of Cancer Biology, College of Medicine, China Medical University
  - 2004-2009 Professor at Institute of Biochemistry and Biotechnology, Medical College, Chung-Shan Medical University
  - 1993-2004 Associated professor at Institute of Biochemistry and Biotechnology, Medical College, Chung-Shan Medical University

**Fields of Specialty**

- Cancer biology
- Endocrinology
- Traditional Chinese Medicine

## Research

- Liver/Breast carcinogenesis and gene target therapy
- Traditional Chinese Medicine and cancer therapy

## Paper & Project

(Selected from 38 peer-reviewed publications) (\*Correspondence; †Co-first author)

1. Tsay-I Chiang, I-Chang Chang, Hsueh-Hui Lee, Kuang hui Hsieh, Yung-Wei Chiu, Te-Jen Lai, **Jer-Yuh Liu\***, Li-Sung Hsu\*, Shao-Hsuan Kao\*. *Ocimum gratissimum* aqueous extract reduces plasma lipid in hypercholesterol-fed hamsters. *International Journal of Medical Sciences*, In press, 2016. (SCI, IF: 2.232) \*Corresponding authors.
2. Tsay-I Chiang, I-Chang Chang, Hsueh-Hui Lee, Kuang hui Hsieh, Yung-Wei Chiu, Te-Jen Lai, **Jer-Yuh Liu\***, Li-Sung Hsu\*, Shao-Hsuan Kao\*. Amelioration of estrogen deficiency-induced obesity by collagen hydrolysate. *International Journal of Medical Sciences*, In press, 2016. (SCI, IF: 2.232) \*Corresponding authors.
3. Chia-Jen Lee, Li-Sung Hsu, Chia-Herng Yue, Ho Lin, Yung-Wei Chiu, Yu-Yu Lin, Chih-Yang Huang\*, Mien-Chie Hung\* and **Jer-Yuh Liu\*** MZF-1/Elk-1 interaction domain as therapeutic target for protein kinase C $\alpha$ -based triple-negative breast cancer cells. *Oncotarget* doi: 10.18632/oncotarget.11337., 2016. (SCI, IF: 5.008) \*Corresponding authors.
4. Wen-Hong Wang, Yung-Wei Chiu, Shao-Hsuan Kao, Wei-Jen Ting, Chih-Yin Hsu, Hung-Hui Cheng, Hsueh-Hui Lee, Kuanghui Hsieh, **Jer-Yuh Liu\***, Jin-Ming Hwang\*. Eight Probiotics Effective in Lowering Serum Lipids. *Adaptive Medicine*, 8(1): 1-5, 2016. \*Corresponding authors
5. En-Hui Cheng<sup>†</sup>, **Jer-Yuh Liu<sup>†</sup>**, Tsung-Hsien Lee, Chun-Chia Huang, Chung-I Chen, Lii-Sheng Huang, Maw-Sheng Lee. Requirement of leukemia inhibitory factor or epidermal growth factor for pre-implantation embryogenesis via JAK/STAT3 signaling pathways. *PLoS One*, 11(4):e0153086., 2016. (SCI, IF: 3.730). †Co-first author.
6. Chia-Herng Yue, Liang-Chih Liu, Erl-Shyh Kao, Ho Lin, Li-Sung Hsu, Chih-Wei Hsu, Yu-Yu Lin, Yi-Syuan Lin, **Jer-Yuh Liu\***, and Chia-Jen Lee\*. Protein kinase C  $\alpha$  involved in the regulation of AXL receptor tyrosine kinase expression in triple-negative breast cancer cells. *Molecular Medicine Reports* 14: 1636-1642, 2016. (SCI, IF: 1.170) \*Co-corresponding authors.
7. Chia-Herng Yue, Chih-Yang Huang, Jen-Hsiang Tsai, Chih-Wei Hsu, Yi-Hsien

- Hsieh\*, Ho Lin\*, and **Jer-Yuh Liu\***. MZF-1/Elk-1 complex binds to protein kinase Ca promoter and is involved in hepatocellular carcinoma. *PLoS One*, 10(5):e01274202015, 2015. (SCI, IF: 3.730) \*Corresponding authors.
8. I-Chang Chang, Tsay-I Chiang, Chun Lo, Yi-Hua Lai, Chia-Herng Yue, **Jer-Yuh Liu\***, Li-Sung Hsu\*, and Chia-Jen Lee\*. Anemone altaica induces apoptosis in human osteosarcoma cells. *American Journal of Chinese Medicine*, 2015;43:1031-42. (SCI, IF: 2.625) \*Corresponding authors.
  9. Chen, Y-H., Chiu, Y-W., Shyu, J-C., Tsai, C-C., Lee, H-H., Hung, C-C., Wang, W-H.,\* Hwang, J-M.,\* and **Liu, J-Y.\*** Protective Effects of Ocimum gratissimum Polyphenol Extract on Carbon Tetrachloride-Induced Liver Fibrosis in Rats. *Chinese Journal of Physiology*, 58(1):33-63, 2015. (SCI, IF: 1.275) \*Corresponding authors.
  10. Lee, C-J., Yue, C-H., Lin, Y-J., Lin, Y-Y., Kso, S-H.,\* **Liu, J-Y.\*** and Chen, Y-H\* Antitumor Activity of Acriflavine in Lung Adenocarcinoma Cell Line A549. *Anticancer Research*, 34(11): 6467-6472, 2014. (SCI, IF: 1.872) \*Corresponding authors.
  11. Lee, C-J., Yue, C-H., Lin, Y-Y Wu, J-C.,\* and **Liu, J-Y.\*** Antitumor Activity of Acriflavine in Human Hepatocellular Carcinoma Cells. *Anticancer Research*, 34(7):3549-3556, 2014. (SCI, IF: 1.872) \*Corresponding authors
  12. Chiu, Y-W., Chao, P-Y., Tsai, C-C., Chiou, H-L., Liu, Y-C., Hung, C-C., Shih, H-C., Te-Jen Lai, T-J.,\* and **Liu, J-Y.\*** Ocimum gratissimum is Effective in Prevention against Liver Fibrosis In Vivo and In Vitro. *American Journal of Chinese Medicine*, 42 (4): 833–852, 2014. (SCI, IF: 2.625) \*Corresponding authors.
  13. Lin, C-C., Chao, P-Y., Shen, C-Y., Shu, J-J., Yen, S-K.,\* Huang, C-Y.,\* and **Liu, J-Y.\*** Novel Target Genes Responsive to Apoptotic Activity by Ocimum gratissimum in Human Osteosarcoma Cells. *American Journal of Chinese Medicine*, 42 (3): 743–767, 2014. (SCI, IF: 2.625) \*Corresponding authors.
  14. Chen, Y-H., Lee, S-M., Tsai, F-L., Lee, H-H. and **Liu, J-Y.\*** Dietary supplementation of *Ocimum gratissimum* improves immune response without affecting the growth performance and blood characteristics in Taiwan country chicken. *Journal of Poultry Science* 51: 313-320, 2014. (SCI, IF: 0.787) \*Corresponding authors.
  15. Lin, Y-C., Cheng, K-M., Huang, H-Y., Chao, P-Y., Hwang, J-M., Lee, H-H., Lu, C-Y., Chiu, Y-W.\* and **Liu, J-Y.\*** Hepatoprotective activity of Chhit-Chan-Than extract powder against CCl4-induced liver injury in rats. *Journal of Food and Drug Analysis* 22:220-229, 2014. (SCI, IF: 0.395) \*Corresponding authors.
  16. Kuo, C-C., Huang, Y-C., Yeh, C-W., Hseu, Y-C., **Liu, J-Y.\*** and Hsu, L-S.\*

- Naringenin inhibited migration of bladder cancer cells via downregulation of AKT and MMP-2. *Molecular Medicine Reports* 10(3):1531-1536, 2014. (SCI, IF: 1.170) \*Co-corresponding authors.
17. Chang, H-C., Chiu, Y-W., Lin, Y-M., Chen, R-J., Lin, J. A., Tsai, F-J., Tsai, C-H., Kuo, Y-C., **Liu, J-Y.\*** and Huang, C-Y.\* Herbal Supplement Attenuation of Cardiac Fibrosis in Rats with CCl<sub>4</sub>-Induced Liver Cirrhosis. *Chinese Journal of Physiology* 57(1):41-47, 2014. (SCI, IF: 1.275) \*Co-corresponding authors.
  18. Chiu, Y-W., Lo, H-J., Huang, H-Y., Chao, P-Y., Hwang, J-M., Huang, P-Y., Huang, S-J., **Liu, J-Y.\***, and Lai, T-J.\* Antioxidant and Cytoprotective Activities of Ocimum Gratissimum Extracts against Hydrogen Peroxide Induced Toxicity in Human HepG2 Cells. *Journal of Food and Drug Analysis* 21:253-260, 2013. (SCI, IF: 0.395) \*Co-corresponding authors.
  19. **Liu, J-Y.**, Chen, Y-C., Lin, C-H. and Kao, S-H. *Perilla frutescens* leaf extract inhibits mite major allergen Der p 2-induced gene expression of pro-allergic and pro-inflammatory cytokines in human bronchial epithelial cell. BEAS-2B. *PLoS One* 8(10):e77458, 2013. (SCI, IF: 3.730)
  20. Li, P-C., Chiu, Y-W., Lin, Y-M., Day, C. H., Hwang, G-Y., Pai, P., Tsai, F-J., Tsai, C-H., Kuo, Y-C., Chang, H-C., **Liu, J-Y.\*** and Huang, C-Y.\* Herbal Supplement Ameliorates Cardiac Hypertrophy in Rats with CCl<sub>4</sub>-Induced Liver Cirrhosis. *Evid Based Complement Alternat Med* 2012(139045):1-9, 2012. (SCI, IF: 1.722) \*Co-corresponding authors.
  21. Chiu, C-C., Huang, C-Y., Chen, T-Y., Kao, S-H., **Liu, J-Y.**, Wang, Y-W., Tzang, B-S.\* and Hsu, T-C.\* Beneficial Effects of *Ocimum gratissimum* Aqueous Extract on Rats with CCl<sub>4</sub>-Induced Acute Liver Injury. *Evid Based Complement Alternat Med* 2012(7367520):1-9, 2012. (SCI, IF: 1.722) \*Co-corresponding authors.
  22. Jou, Y-C., Chiu, Y-W., Chen, Y-H., Hwang, J-M., Chao, P-Y., Shiu, J-J., Hwang, W-H., **Liu, J-Y.\*** and Hsu, L-S.\* The Expression of Protein Kinase C $\alpha$  and the MZF-1 and Elk-1 Transcription Factors in Human Bladder Transitional Cell Carcinoma Cells. *Chinese Journal of Physiology* 55(2):75-81, 2012. (SCI, IF: 0.748) \*Co-corresponding authors.
  23. Lin, Y-M., Su, C-C., Su, W-W., Hwang, J-M., Hsu, H-H., Tsai, C-H., Wang, Y-C., Tsai, F-J., Huang, C-Y.\*, **Liu, J-Y.\*** and Chen, L-M.\* Expression of protein kinase C isoforms in cancerous breast tissue and adjacent normal breast tissue. *Chinese Journal of Physiology* 55(1):55-61, 2012. (SCI, IF: 0.748) \*Co-corresponding authors.
  24. Yue, C-H., Chiu, Y-W., Tung, J-N., Tzang, B-S., Shiu, J-J., Huang, W-H., **Liu, J-Y.\*** and Hwang, J-M.\* Expression of Protein Kinase C  $\alpha$  and the MZF-1 and

- Elk-1 Transcription Factors in Human Breast Cancer Cells. *Chinese Journal of Physiology* 55(1):31-36, 2012. (SCI, IF: 0.748) \*Co-corresponding authors.
25. Chiu, Y-W.<sup>‡</sup>, Lin, T-H.<sup>‡</sup>, Huang, W-S., Teng, C-Y., Liou, Y-S., Kuo, W-H., Lin, W-L., Huang, H-I, Tung, J-N., Huang, C-Y., **Liu, J-Y.**, Wang, W-H., Hwang, J-M.\*,<sub>2</sub>Kuo, H-C\*. Baicalein inhibits the migration and anvasive properties of human hepatoma cells. *Toxicology and Applied Pharmacology* 255:316-326, 2011. (SCI, IF: 3.975) <sup>‡</sup>Co-first authors, \*Co-corresponding authors.
26. Lee, M-J., Chen, H-M., Tzang, B-S., Lin, C-W., Wang, C-J., **Liu, J-Y.\*** and Kao, S-H.\* *Ocimum gratissimum* aqueous extract protects H9c2 myocardiac cells from H<sub>2</sub>O<sub>2</sub>-induced cell apoptosis through Akt signalling. *Evidence-based Complementary and Alternative Medicine* 2011(578060):1-8, 2011. (SCI, IF: 1.722) \*Co-corresponding authors.
27. Chen, H-M., Lee, M-J., Kuo, C-Y., Tsai, P-L., **Liu, J-Y.** and Kao, S-H. *Ocimum gratissimum* aqueous extract induces apoptotic signaling in lung adenocarcinoma cell A549. *Evidence-based Complementary and Alternative Medicine* 2011(739093):1-7, 2011. (SCI, IF: 1.722)