

Curriculum Vitae

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Careers:

Bachelor of Pharmacy, Kaohsiung Medical University

Master of Science, Postgraduate Institute of Molecular Biology,

Ching-Hwa University

PhD., Postgraduate Institute of Medicine, Kaohsiung Medical University

Associate Professor, Department of Biochemistry, Kaohsiung Medical University

Visiting Associate Professor, Department of Biochemistry, University of Arkansas for medical Sciences

Dean, Department of Biology, Kaohsiung Medical University
(1991~1992)

Chief, Department of Biochemistry, Kaohsiung Medical University
(1996~2006)

Chief, Postgraduate Institute of Biochemistry, Kaohsiung Medical University (1996~2006)

Chief, Center of Functional Proteomics, Kaohsiung Medical University

(2004~2007)

Chief, Center of Genomic Research, Kaohsiung Medical University

(2006~2007)

Current position:

Professor, Department of Biochemistry, Kaohsiung Medical University

(1991~)

Research interests:

Cell biology, molecular biology, cancer biology, signal transduction,
diabetic nephropathy

Services:

Member of the Committee of Biotechnology Assessment

Member of the Committee for the Development of Science and
Technology, Department of Economy, Executive Yuen

Refereed papers within 5 years: * (corresponding author)

1. Chen SC, Guh JY, Lin TD, Chiou SJ, Hwang CC, Ko YM, Chuang LY*. Gefitinib attenuates transforming growth factor- β 1-activated mitogen-activated protein kinases and mitogenesis in NRK-49F cells. *Transl Res.* 2011 Oct;158(4):214-24
2. Yang YL, Ju HZ, Liu SF, Lee TC, Shih YW, Chuang LY, Guh JY, Yang YY, Liao TN, Hung TJ, Hung MY. BMP-2 suppresses renal interstitial fibrosis by regulating epithelial-mesenchymal transition. *J Cell Biochem.* 2011 Sep;112(9):2558-65
3. Ko YM, Wu TY, Wu YC, Chang FR, Guh JY, Chuang LY*. Annonacin induces cell cycle-dependent growth arrest and apoptosis in estrogen receptor- α -related pathways in MCF-7 cells. *J Ethnopharmacol.* 2011 Aug 4 (In press)
4. Chung YM, Chang FR, Tseng TF, Hwang TL, Chen LC, Wu SF, Lee CL, Lin ZY, Chuang LY, Su JH, Wu YC. A novel alkaloid, aristopyridinone A and anti-inflammatory phenanthrenes isolated from Aristolochia mansuriensis. *Bioorg Med Chem Lett.* 2011 Mar 15;21(6):1792-4
5. Chang YH, Wang YL, Lin JY, Chuang LY, Hwang CC. Expression, purification, and characterization of a human recombinant 17beta-hydroxysteroid dehydrogenase type 1 in Escherichia coli. *Mol Biotechnol.* 2010 Feb;44(2):133-9
6. Chang YH, Wang CZ, Chiu CC, Chuang LY, Hwang CC. Contributions of active site residues to cofactor binding and catalysis of 3alpha-hydroxysteroid dehydrogenase/carbonyl reductase. *Biochim Biophys Acta.* 2010 Jan;1804(1):235-41
7. Chen SC, Guh JY, Hwang CC, Chiou SJ, Lin TD, Ko YM, Huang JS, Yang YL, Chuang LY*. Advanced glycation end-products activate extracellular signal-regulated kinase via the oxidative stress-EGF receptor pathway in renal fibroblasts. *J Cell Biochem.* 2010 Jan 1;109(1):38-48
8. Jeng JE, Tsai HR, Chuang LY, Tsai JF, Lin ZY, Hsieh MY, Chen SC,

Chuang WL,
Wang LY, Yu ML, Dai CY, Chang JG. Independent and additive interactive effects among tumor necrosis factor-alpha polymorphisms, substance use habits, and chronic hepatitis B and hepatitis C virus infection on risk for hepatocellular carcinoma. *Medicine (Baltimore)*. 2009 Nov;88(6):349-57

9. Chang YH, Huang TJ, Chuang LY, Hwang CC. Role of S114 in the NADH-induced conformational change and catalysis of 3alpha-hydroxysteroid dehydrogenase/carbonyl reductase from *Comamonas testosteroni*. *Biochim Biophys Acta*. 2009 Oct;1794(10):1459-66

10. Huang JS, Chuang LY, Guh JY, Huang YJ. Effects of nitric oxide and antioxidants on advanced glycation end products-induced hypertrophic growth in human renal tubular cells. *Toxicol Sci*. 2009 Sep;111(1):109-19

11. Chou WW, Guh JY, Tsai JF, Hwang CC, Chiou SJ, Chuang LY*. Arecoline-induced phosphorylated p53 and p21(WAF1) protein expression is dependent on ATM/ATR and phosphatidylinositol-3-kinase in clone-9 cells. *J Cell Biochem*. 2009 Jun 1;107(3):408-17

12. Yang YL, Liu YS, Chuang LY, Guh JY, Lee TC, Liao TN, Hung MY, Chiang TA. Bone morphogenetic protein-2 antagonizes renal interstitial fibrosis by promoting catabolism of type I transforming growth factor-beta receptors. *Endocrinology*. 2009 Feb;150(2):727-40

13. Huang JS, Chuang LY, Guh JY, Yang YL, Hsu MS. Effect of taurine on advanced glycation end products-induced hypertrophy in renal tubular epithelial cells. *Toxicol Appl Pharmacol*. 2008 Dec 1;233(2):220-6

14. Lin KH, Guh JY, Mo JF, Chiou SJ, Hwang CC, Chuang LY*. Advanced glycation end-product-inhibited cell proliferation and protein expression of beta-catenin and cyclin D1 are dependent on glycogen synthase kinase 3beta in

- LLC-PK1 cells.
Arch Biochem Biophys. 2008 Sep 1;477(1):27-32
15. Yang YL, Chang SY, Teng HC, Liu YS, Lee TC, Chuang LY, Guh JY, Chang FR, Liao TN, Huang JS, Yeh JH, Chang WT, Hung MY, Wang CJ, Chiang TA, Hung CY, Hung TJ. Safflower extract: a novel renal fibrosis antagonist that functions by suppressing autocrine TGF-beta. J Cell Biochem. 2008 Jun 1;104(3):908-19
16. Pan MR, Chang HC, Chuang LY, Hung WC. The nonsteroidal anti-inflammatory drug NS398 reactivates SPARC expression via promoter demethylation to attenuate invasiveness of lung cancer cells. Exp Biol Med (Maywood). 2008 Apr;233(4):456-62
17. Jeng JE, Tsai JF, Chuang LY, Ho MS, Lin ZY, Hsieh MY, Chen SC, Chuang WL, Wang LY, Yu ML, Dai CY, Chang JG. Heat shock protein A1B 1267 polymorphism is highly associated with risk and prognosis of hepatocellular carcinoma: a case-control study. Medicine (Baltimore). 2008 Mar;87(2):87-98
18. Chou WW, Guh JY, Tsai JF, Hwang CC, Chen HC, Huang JS, Yang YL, Hung WC, Chuang LY*. Arecoline-induced growth arrest and p21WAF1 expression are dependent on p53 in rat hepatocytes. Toxicology. 2008 Jan 14;243(1-2):1-10
19. Chuang TD, Guh JY, Chiou SJ, Chen HC, Hung WC, Chuang LY*. Sp1 and Smad3 are required for high glucose-induced p21(WAF1) gene transcription in LLC-PK1 cells. J Cell Biochem. 2007 Dec 1;102(5):1190-201
20. Chang YH, Chuang LY, Hwang CC. Mechanism of proton transfer in the 3alpha-hydroxysteroid dehydrogenase/carbonyl reductase from Comamonas testosteroni. J Biol Chem. 2007 Nov 23;282(47):34306-14
21. Jeng JE, Tsai JF, Chuang LY, Ho MS, Lin ZY, Hsieh MY, Chen SC, Chuang WL, Wang LY, Yu ML, Dai CY, Chang JG. Tumor necrosis factor-alpha 308.2 polymorphism is associated with advanced hepatic fibrosis and higher risk for hepatocellular carcinoma. Neoplasia. 2007 Nov;9(11):987-92
22. Huang JS, Chuang LY, Guh JY, Huang YJ, Hsu MS. Antioxidants

- attenuate high glucose-induced hypertrophic growth in renal tubular epithelial cells. Am J Physiol Renal Physiol. 2007 Oct;293(4):F1072-82
23. Chen YH, Guh JY, Chuang TD, Chen HC, Chiou SJ, Huang JS, Yang YL, Chuang LY*. High glucose decreases endothelial cell proliferation via the extracellular signal regulated kinase/p15(INK4b) pathway. Arch Biochem Biophys. 2007 Sep 1;465(1):164-71
24. Jeng JE, Chuang LY, Chuang WL, Chang JG, Tsai JF. Insulin-like growth factor II in hepatocellular carcinoma. Biomark Med. 2007 Aug;1(2):261-71
25. Yang YL, Lin SH, Chuang LY, Guh JY, Liao TN, Lee TC, Chang WT, Chang FR, Hung MY, Chiang TA, Hung CY. CD36 is a novel and potential anti-fibrogenic target in albumin-induced renal proximal tubule fibrosis. J Cell Biochem. 2007 Jun 1;101(3):735-44
26. Guh JY, Chen HC, Tsai JF, Chuang LY*. Betel-quid use is associated with heart disease in women. Am J Clin Nutr. 2007 May;85(5):1229-35
27. Guh JY, Chen HC, Tsai JF, Chuang LY*. Herbal therapy is associated with the risk of CKD in adults not using analgesics in Taiwan. Am J Kidney Dis. 2007 May;49(5):626-33
28. Chuang TD, Guh JY, Chiou SJ, Chen HC, Huang JS, Yang YL, Chuang LY*. Phosphoinositide 3-kinase is required for high glucose-induced hypertrophy and p21WAF1 expression in LLC-PK1 cells. Kidney Int. 2007 May;71(9):867-74
29. Chen SC, Guh JY, Chen HC, Yang YL, Huang JS, Chuang LY*. Advanced glycation end-product-induced mitogenesis is dependent on Janus kinase 2-induced heat shock protein 70 in normal rat kidney interstitial fibroblast cells. Transl Res. 2007 May;149(5):274-81