

Curriculum Vitae of Chao-Zong Liu

OFFICE ADDRESS

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EDUCATION

Aug 1983 – Jun 1987 **China Medical College**, Taichung City, Taiwan
Degree: *Bachelor of Pharmacy*
Sep 1987 – Jun 1989 **National Taiwan University**, Taipei city, Taiwan
Degree: *Master of Pharmacology*
Sep 1992 – Jun 1996 **National Taiwan University**, Taipei city, Taiwan
Degree: *Ph.D. of Pharmacology*

PROFESSIONAL EXPERIENCE

1989-1991 ROC Marine Corps. *Leader (Lieutenant)*
1991-1992 National Taiwan University Hospital. *Pharmacist*

ACADEMIC EXPERIENCE

1996-2000 **Chia-Nan College of Pharmacy and Science**. Department of Pharmacy.
Associate Professor
2000-2009 **Tzu Chi University**, Department of Pharmacology. *Associate Professor*
2010-2015 **Tzu Chi University**, School of Medicine. *Vice Chairperson*
2016-2020 **Tzu Chi University**, Department of Pharmacology. *Director*
2016-2020 **Tzu Chi University**, Master program and PhD program in Pharmacology
and Toxicology. *Director*
2009 to present **Tzu Chi University**, Department of Pharmacology. *Professor*

TEACHING EXPERIENCE

- Teaching courses:
 - Undergraduate: Pharmacology, Clinical Pharmacology, PBL
 - Graduate: Advanced pharmacology, Research methodology, Pharmacological experiments, Special topics in pharmacological and toxicological researches, Current topics in pharmacology and toxicology
- Coordinate courses
 - Fundamental module (students of medicine)
 - Pharmacology (students of nursing)

HONORS

President's Award for Excellence in Teaching, Tzu Chi University, 2011

PROFESSIONAL SOCIETY MEMBERS

International Society of Thrombosis and Haemostasis (1996 to present)
The Pharmacological Society in Taiwan (1988 to present)

CURRENT RESEARCH INTERESTS

Novel anticoagulants without significant bleeding side effect

Pharmacogenetics and personalized medicine

PEER-REVIEWED PUBLICATIONS (* corresponding author)

Wong MW, Yi CH, Liu TT, Lei WY, Hung JS, **Liu CZ**, Chen CL*. (2021) Effects of phosphodiesterase-5 inhibitor sildenafil on esophageal secondary peristalsis: studies with high-resolution manometry. *Journal of Gastroenterology and Hepatology* 36: 430-435.

Huang HC, Wu SH, Yu SC, Wu BJ, Lua A, Lee SM, **Liu CZ***. (2018) The alpha-2A adrenergic receptor gene -1291C/G single nucleotide polymorphism is associated with the efficacy of methylphenidate in treating Taiwanese children and adolescents with attention deficit/hyperactivity disorder. *Psychiatry Investigation* 15: 306-312.

Huang HC, Chang Lua A, Wu SH, Wu BJ, Lee SM, **Liu CZ***. (2016) Cigarette smoking has a differential effect on the plasma level of clozapine in Taiwanese schizophrenic patients associated with the CYP1A2 gene -163A/C single nucleotide polymorphism. *Psychiatric Genetics* 26: 172-177.

Chen CT, Chen WJ, **Liu CZ**, Chang LY, Chen YC*. (2009) Glutathione-bound gold nanocluster for selective-binding and detection of glutathione S-transferase-fusion protein from cell lysate. *Chemical Communications* 7515-7517.

Lin HW, **Liu CZ**, Cao D, Chen PY, Chen MF, Lin SZ, Mozayan M, Chen AF, Premkumar LS, Torry DS, Lee TJF*. (2008) Endogenous methyl palmitate modulates nicotinic receptor-mediated transmission in the superior cervical ganglion. *Proceedings of National Academy of Sciences USA* 105: 19526-19531.

Liu CZ*, Cheng HJ, Chang LY. (2008) A new feasible method for fibrinogen purification based on the affinity of *Staphylococcus aureus* clumping factor A to fibrinogen. *Protein Expression and Purification* 61: 31-35.

Liu CZ*, Huang TF, Tsai PJ, Tsai PJ, Chang LY and Chang MC. (2007). ClfA₂₂₁₋₅₅₀, a segment of *Staphylococcus aureus* clumping factor A with fibrinogen-binding activity, inhibits platelet plug formation. *Thrombosis Research* 121: 183-191.

Liu CZ*, Wang YC, Wang JH, Shaw CK and Lin GL. (2006) Differential expression of platelet glycoprotein Ia/IIa in Taiwan Chinese corresponds to glycoprotein Ia gene polymorphisms. *Journal of Pharmacological Sciences* 101: 103-106.

Liu CZ*, Shih MH and Tsai PJ. (2005) ClfA₂₂₁₋₅₅₀, a fibrinogen-binding segment of *Staphylococcus aureus* clumping factor A, disrupts fibrinogen function. *Thrombosis and Haemostasis* 94: 286-294.

Liu CZ*, Huang HY, Tsai PJ and Shih MH. (2005) Blockade of glycoprotein IIb/IIIa by crotavirin, a member of disintegrins, prevents platelet from activation and aggregation by *Staphylococcus aureus* bacteria. *Thrombosis Research* 116: 145-155.

Tang CH, Yang RS, **Liu CZ**, Huang TF and Fu WM*. (2004) Differential susceptibility of osteosarcoma cells and primary osteoblasts to cell detachment caused by snake venom metalloproteinase protein. *Toxicon* 43: 11-20.

Liu CZ*, Wu TF, Huang TF, Wu DH and Lin GL. (2002) Trimucylin, a collagen-like snake venom protein, activates platelets independent of I-domain within $\alpha 2$ subunit of $\alpha 2\beta 1$ integrin. *Thrombosis Research* 105: 153-160.

Huang TF* and **Liu CZ**. (1997) The biological activities of disintegrins and their possible applications. *Journal of Toxicology and Toxin Review* 16: 135-161.

Yang CH, **Liu CZ**, Huang TF*, Yang CM, Liu KR, Chen MS and Hung PT. (1997) Inhibition of RPE cell-mediated matrix adhesion and collagen gel contraction by crovidisin, a collagen-binding

snake venom protein. *Current Eye Research* 16: 1119-1126.

Liu CZ and Huang TF*. (1997) Crovidisin, a collagen-binding protein isolated from snake venom of *Crotalus viridis*, prevents platelet-collagen interaction. *Archive of Biochemistry and Biophysics* 337: 291-299.

Liu CZ, Hur BT and Huang TF*. (1996) Measurement of glycoprotein IIb/IIIa blockade by flow cytometry with fluorescein isothiocyanate-conjugated crotavirin, a member of disintegrins. *Thrombosis and Haemostasis* 76: 585-591.

Liu CZ, Peng HC and Huang TF*. (1995) Crotavirin, a potent platelet aggregation inhibitor purified from the venom of the snake *Crotalus viridis*. *Toxicon* 33: 1289-1298.

Huang TF*, **Liu CZ** and Yang SH. (1995) Aggretin, a novel platelet aggregation inducer from snake (*Calloselasma rhodostoma*) venom, activates phospholipase C by acting as a glycoprotein Ia/IIa agonist. *Biochemical Journal* 309: 1021-1027.

Liu CZ, Wang YW, Shen MC and Huang TF*. (1994) Analysis of human platelet glycoprotein IIb/IIIa by fluorescein isothiocyanate-conjugated disintegrins with flow cytometry. *Thrombosis and Haemostasis* 72: 919-925

Huang TF*, **Liu CZ**, Ouyang C and Teng CM. (1991) Halysin, an antiplatelet Arg-Gly-Asp-containing snake venom peptide, as fibrinogen receptor antagonist. *Biochemical Pharmacology* 42: 1209-1219.