



Dr. Hsiang-Ruei Liao

<u>Position:</u> Professor	<u>Laboratory</u> : Natural Products Pharmacology
<u>Degree</u> : Ph.D.	<u>Graduated from</u> : NTU
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Research Interests:

- Inflammation and Neutrophil extracellular trap (NET) formation
- Signal transduction
- Platelet biology and vascular disease.
- Anti-thrombosis drug development.

Publication Lists: (2011-present)

1. Chen, J. J., Tsai, T. H., **Liao, HR.**, Chen, L. C., Kuo, Y. H., Sung, P. J., ... & Wei, C. S. New Sesquiterpenoids and Anti-Platelet Aggregation Constituents from the Rhizomes of *Curcuma zedoaria*. (2016). *Molecules*, 21(10), 1385.
2. **Liao HR**, Chien CR, Chen JJ, Lee TY, Lin SZ, Tseng CP. The anti-inflammatory effect of 2-(4-hydroxy-3-prop-2-enyl-phenyl)-4-prop-2-enyl-phenol by targeting Lyn kinase in human

neutrophils. (2015) Chem Biol Interact.

3. Chen LC, **Liao HR**, Chen PY, Kuo WL, Chang TH, Sung PJ, Wen ZH, Chen JJ. Limonoids from the Seeds of *Swietenia macrophylla* and Their Anti-Inflammatory Activities. (2015) *Molecules*. Oct 12;20(10):18551-64.
4. Chang YW, Hsieh PW, Chang YT, Lu MH, Huang TF, Chong KY, **Liao HR**, Cheng JC, Tseng CP. Identification of a novel platelet antagonist that binds to CLEC-2 and suppresses podoplanin-induced platelet aggregation and cancer metastasis. (2015) *Oncotarget*. Dec 15;6(40):42733-48.
5. Kuo WL, **Liao HR**, Chen JJ. Biflavans, Flavonoids, and a Dihydrochalcone from the Stem Wood of *Muntingia calabura* and Their Inhibitory Activities on Neutrophil Pro-Inflammatory Responses. (2014) *Molecules*.
6. Chuang LP, Chen NH, Lin SW, Chang YL, **Liao HR**, Lin YS, Chao IJ, Lin Y, Pang JH. Increased C-C chemokine receptor 2 gene expression in monocytes of severe obstructive sleep apnea patients and under intermittent hypoxia. (2014) *PLoS One* Nov 20;9(11):e113304.
7. Tseng WL, Chen TH, Huang CC, Huang YH, Yeh CF, Tsai HJ, Lee HY, Kao CY, Lin SW, **Liao HR**, Cheng JC, Tseng CP. Impaired thrombin generation in Reelin-deficient mice: a potential role of plasma Reelin in hemostasis. (2014). *J Thromb Haemost*. Dec;12(12):2054-64.
8. Chen JJ, Wang TC, Yang CK, **Liao HR**, Sung PJ, Chen IS, Cheng MJ, Peng CF, Chen JF. New pterisin sesquiterpenes and antitubercular constituents from *Pteris ensiformis*. (2013) *Chem Biodivers*. Oct; 10(10): 1903-8.
9. Lin CH, Chang HS, **Liao HR**, Chen IS, Tsai IL. Triterpenoids from the Roots of *Rhaphiolepis indica* var. *tashiroi* and Their Anti-Inflammatory Activity. (2013) *Int J Mol Sci*. Apr 24;14(5): 8890-8.
10. Liu FC, Liou JT, **Hsiang-Ruei Liao**, Mao CC, Yang P, Day YJ. The anti-aggregation effects of ondansetron on platelets involve IP3 signaling and MAP kinase pathway, but not 5-HT3-dependent pathway. (2012) *Thromb Res*.130(3):e84-94.
11. Liu FC, Day YJ, Liou JT, Yu HP, **Hsiang-Ruei Liao**. Splitomicin inhibits fMLP-induced superoxide anion production in human neutrophils by activate cAMP/PKA signaling inhibition of ERK pathway. (2012) *Eur J Pharmacol*. 688(1-3):68-75.
12. **Hsiang-Ruei Liao***, Jih-Jung Chen, Yin-Huan Chien, Shinn-Zhi Lin, Shunchih Lin^a Ching-Ping Tseng. 5-hydroxy-7-methoxyflavone inhibits *N*-formyl-L-methionyl-L-leucyl-L-phenylalanine-induced superoxide anion production by specific modulate membrane localization of Tec with a PI3K independent mechanism in human neutrophils. (2012) *Biochemical Pharmacology*. 84(2): 182-91
13. Mei-Chi Chang , Tong-Mei Wang , Sin-YuetYeung , Po-YuanJeng , **Chang-Hui Liao** , Tzu-Yung Lin , Chiu-Chun Lin, Bor-RuLin, Jjiang-Huei Jen,.Antiplatelet effect by p-cresol, a

uremic and environmental toxicant, is related to inhibition of reactive oxygen species, ERK/p38 signaling and thromboxane A₂ production. (2011) *Atherosclerosis*. 219: 559-565.

14. Liou BJ, Chang HS, Wang GJ, Chiang MY, **Chang-Hui Liao**, Lin CH, Chen IS. Secondary metabolites from the leaves of *Neolitsea hiranensis* and the anti-inflammatory activity of some of them. (2011) *Phytochemistry* 72: 415-422.

Patents:

以下放置各研究室活動照片（至少四張）













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