

***Publication list of Prof. Inn-Ho Tsai, 2011-15*** (\*, corresponding author)

1. **Tsai IH**, Wang YM, Hseu, M J (2011) Mutagenesis analyses explore residues responsible for the neurotoxic and anticoagulant activities of Trimucrotoxin, a pit-viper venom Asn6-phospholipase A<sub>2</sub>. *Biochimie*, 93, 277-285.
2. Lin CW, Chen JM, Wang YM, Wu SW, **Tsai IH\***, Khoo KH\* (2011) Terminal disialylated multiantennary complex type *N*-glycans carried on acutobin define the glycosylation characteristics of the *Deinagkistrodon acutus* venom. *Glycobiology* 21(4), 530-542.
3. **Tsai IH\***, Wang, Y.M., Cheng, A.C., V. Starkov, A. Osipov, I. Nikitin, Y. Makarova, R. Ziganshin, Y. Utkin (2011) cDNA cloning, structural, and functional analyses of venom phospholipases A<sub>2</sub> and a Kunitz-type protease inhibitor from steppe viper *Vipera ursinii renardi*. *Toxicon* **57**, 332-341.
4. **IH Tsai\***, TS Tsai, YM Wang, MC Tu, HC Chang (2011) Cloning and characterization of *Trimeresurus gracilis* venom phospholipases A<sub>2</sub>: comparison to *Ovophis okinavensis* venom and the implication to systematic. *Toxicon* 59, 151-157.
5. Chen, H.S. Wang, Y.M., Huang, W.T. Huang, K.F. **Tsai I.H.\*** (2012) Cloning, characterization and mutagenesis of Russell's viper venom L-amino acid oxidase: insights into its catalytic mechanism. *Biochimie* 94, 335-344.
6. An-Chun Cheng, Hua-Lin Wu, Guey-Yueh Shi, **Inn-Ho Tsai\*** (2012) A novel heparin-dependent inhibitor of activated protein C that potentiates consumptive coagulopathy in Russell's viper envenomation. *J. Biol. Chem.* 287, 15739–15748.
7. **I.H. Tsai\***, H.C. Chang, J.M. Chen, A.C. Cheng, K.H. Khoo (2012) Glycan structures and intrageneric variations of venom acidic phospholipases A<sub>2</sub> from *Tropidolaemus pitvipers*. *FEBS J.* 279, 2672-2682.
8. Antony Gomes, Shamik Bhattacharya, Sanghamitra Mukherjee, Inn-Ho Tsai, Aparna Gomes\* (2012) Inhibition of toxic actions of phospholipase A<sub>2</sub> isolated and characterized from the Indian Banded Krait (*Bungarus fasciatus*) venom by synthetic herbal compounds. *India J. Med. Res.* 136, 40-45
9. Hui-Ching Chang, Tein-Shun Tsai, Inn-Ho Tsai\* (2013) Functional proteomic approach to discover geographic variations of king cobra venoms from Southeast Asia and China. *J. of Proteomics* 89, 141-153.
10. An-Chun Cheng, Inn-Ho Tsai\* (2014) Functional characterization of a slow and tight-binding inhibitor of plasmin isolated from Russell's viper venom. *Biochim.*

Biophys. Acta (General subject) 1840, 153–159.

11. Y.M. Wang, K.F. Huang, I.H. Tsai\* (2014) Snake venom glutaminyl cyclases: purification, cloning, kinetic study, recombinant expression, and comparison with the human enzyme. *Toxicon* 86, 40–50
12. Y.M. Wang, I.H. Tsai\*, J.M. Chen, A.C. Cheng, K.H. Khoo (2014) Correlation between the glycan variations and defibrinogenating activities of acutobin and its recombinant glycoforms. *PLoS ONE* 9(6): e100354. doi:10.1371/journal.pone.0100354
13. Sunagar K, **Tsai IH**, Lomonte B, Jackson TNW, Fry BG (2015) In: *Venomous Reptiles and Their Toxins: Evolution, Pathophysiology and Biodiscovery* (Fry BG, edi.). Oxford University Press. **Chapter 21** Group-II phospholipase A<sub>2</sub> enzymes.
14. **I.H. Tsai\***, Y.M. Wang, K.F. Huang (2015) Effects of single glycosylation-site knockout on folding and defibrinogenating activities of acutobin recombinants from HEK293T. *Toxicon* 94, 50-59.
15. **Tsai, I.H.** Snake Venom Phospholipase A<sub>2</sub>: Evolution and Diversity. In: *Toxicology*. (Gopalashaken edi,) Springer-Verlag, Singapore, UK. 2015.
16. Yang, Z.M., Guo, Q., Ma, Z.R., Chen, Y., Wang, Z.Z., Wang, X.M., Wang, Y.M., **Tsai, I.H.\*** (2015). Structures and functions of crotoxin-like heterodimers and acidic phospholipases A<sub>2</sub> from *Gloydius intermedius* venom: insights into the origin of neurotoxic-type rattlesnakes. *J Proteomics*. 112, 210-23.
17. Yang ZM, Yang YE, Chen Y, Cao J, Zhang C, Liu LL, Wang, ZZ, Wang XM, Wang YM, **Tsai, IH\*** (2015) Transcriptome and proteome of the highly neurotoxic venom of *Gloydius intermedius*. *Toxicon* **107**, 175-186
18. **I.H. Tsai\***, Y.M. Wang, K. F. Huang (2015) Structures of Azemiops feae venom phospholipases and Cys-rich-secretory protein and implications for taxonomy and toxinology. *Toxicon* in press.