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Education:

Doctor of Philosophy (Biology) 2015 Prince of Songkla University
Bachelor of Science (Biology) 2004 Prince of Songkla University

Research Interest:

- Identification of novel peptide (toxins, antimicrobial peptides) from insect genome/transcriptome
- Molecular basis of chemoreception in the insect pests (mosquitoes, red palm weevils, flour beetles, brown planthopper etc.)
- Comparative genomics and molecular evolution of the gene family

Publication:

Mitpuangchon, N., Nualcharoen, K., Boonrotpong, S., **Engsontia P.** (2021) Identification of Novel Toxin Genes from the Stinging Nettle Caterpillar *Parasa lepida* (Cramer, 1799): Insights into the Evolution of Lepidoptera Toxins. *Insects*, 12(5), 396. <https://doi.org/10.3390/insects12050396>

He P., **Engsontia P.**, Chen G., Yin Q., Wang J., Lu X., Zhang Y., Li Z., He M. (2018) Molecular characterization and evolution of a chemosensory receptor gene family in three notorious rice planthoppers, *Nilaparvata lugens*, *Sogatella furcifera* and *Laodelphax striatellus*, based on genome and transcriptome analyses. *Pest Management Science*. doi:10.1002/ps.4912

Schoville S.D., Chen Y.H., Andersson M.N., Benoit J.B., Bhandari A., Bowsher J.H., Brevik K., Cappelle K., Chen M.-J.M., Childers A.K., Childers C., Christiaens O., Clements J., Didion E.M., Elpidina E.N., Engsontia P., Friedrich M., García-Robles I., Gibbs R.A., Goswami C., Grapputo A., Gruden K., Grynberg M., Henrissat B., Jennings E.C., Jones J.W., Kalsi M., Khan S.A., Kumar A., Li F., Lombard V., Ma X., Martynov A., Miller N.J., Mitchell R.F., Munoz-Torres M., Muszewska A., Oppert B., Palli S.R., Panfilio K.A., Pauchet Y., Perkin L.C., Petek M., Poelchau M.F., Record É., Rinehart J.P., Robertson H.M., Rosendale A.J., Ruiz-Arroyo V.M., Smaghe G., Szendrei Z., Thomas G.W.C., Torson A.S., Vargas Jentsch I.M., Weirauch M.T., Yates A.D., Yocum G.D., Yoon J.-S., Richards S. (2018) A model species for agricultural pest genomics: the genome of the Colorado potato beetle, *Leptinotarsa decemlineata* (Coleoptera: Chrysomelidae). *Scientific Reports* 8: 1931. doi:10.1038/s41598-018-20154-1

Engsontia P., Sangket U, Robertson HM, Satasook C. (2015) Diversification of the ant odorant receptor gene family and positive selection on candidate cuticular hydrocarbon receptors. *BMC Research Notes* 8:380. doi:10.1186/s13104-015-1371-x

Engsontia P., Sangket U, Chotigeat W, Satasook C. (2014) Molecular evolution of the odorant and gustatory receptor genes in lepidopteran insects: Implications for their adaptation and speciation. *Journal of Molecular Evolution* 79: 21-39. doi:10.1007/s00239-014-9633-0

Engsontia P., Sanderson AP, Cobb M, Walden KKO, Robertson HM, Brown S. 2008. The red flour beetle's large nose: An expanded odorant receptor gene family in *Tribolium castaneum*. *Insect Biochemistry and Molecular Biology* 38(4):387-97. doi: 10.1016/j.ibmb.2007.10.005