Matsapume Detcharoen

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Education

2015-2020 | Ph.D. (Biology) University of Innsbruck, Austria

- Ph.D. project: Host-parasite interactions between *Drosophila nigrosparsa* Strobl, 1898 and *Wolbachia pipientis* Hertig, 1936
- Dissertation title: *Wolbachia* endosymbionts: diversity and effects on the fly *Drosophila nigrosparsa*
- Professor Birgit Schlick-Steiner, Molecular Ecology Group, Department of Ecology
- Microbiome, transcriptome, genomics, next generation sequencing, microinjection, *Drosophila* maintenance, wet lab skills, R

2013-2015 | M.Sc. (Biology) Ludwig Maximilian University of Munich, Germany

- Master's thesis: Phylogenetic and diversity of *Labyrinthula* spp. in seagrass beds across North Atlantic Ocean and the Baltic Sea
- Professor Thorsten Reusch, Marine Ecology, Helmholtz Center for Ocean Research Kiel (GEOMAR)
- Wet lab skills, seagrass culturing, Sanger sequencing

2009-2013 | B.Sc. (Biology) Prince of Songkla University, Thailand

- Bachelor's thesis: Population genetic of seagrass *Halophila ovalis* in Western Pacific and Eastern Indian Ocean
- Associate Professor Anchana Prathep, Seaweed and Seagrass Research Unit, Department of Biology
- Seagrass culturing, wet lab skills, microsatellite, AFLP

Areas of research interest

- Host-endosymbionts interactions
- Ecology and evolution of symbioses
- Phylogeny and phylogeography
- Experimental evolution
- Genome and transcriptome biology

Peer-reviewed publications

- Detcharoen M, Jiggins FM, Schlick-Steiner BC, Steiner FM. (2023). ***Wolbachia* endosymbiotic bacteria alter the gut microbiome in the fly *Drosophila nigrosparsa*.** *Journal of Invertebrate Pathology*. 198:107915. doi:10.1016/j.jip.2023.107915

- Detcharoen M, Bumrungsri S, Voravuthikunchai SP. (2023). **Complete genome of rose myrtle, *Rhodomyrtus tomentosa*, and its population genetics in Thai Peninsula.** *Plants*. 12(8), 1582. doi:10.3390/plants12081582

- Detcharoen M, Nilsai A. (2023). **Low endosymbiont incidence in *Drosophila* species across Peninsula Thailand.** *Microbial Ecology*. 85:730–736. doi:10.1007/s00248-022-01982-1

- Weiland SO, Detcharoen M, Schlick-Steiner BC, Steiner FM. (2022). **Analyses of locomotion, wing morphology, and microbiome in *Drosophila nigrosparsa* after recovery from antibiotics.** *MicrobiologyOpen*. 11(3):e1291. doi:10.1002/mbo3.1291

- Nilsai A, Detcharoen M, Godeiro NN, Jantarit S. (2021). **Four new species of troglomorphic *Coecobrya* Yosii, 1956 (Collembola, Entomobryidae) from Thailand based on morphological and molecular evidence, with an updated key of Thai troglomorphic species.** *Subterranean Biology*. 41:1–42. doi:10.3897/subtbiol.41.76926

- Detcharoen, M., Schilling, M. P., Arthofer, W., Schlick-Steiner, B. C., & Steiner, F. M. (2021). **Differential gene expression in *Drosophila melanogaster* and *D. nigrosparsa* infected with the same *Wolbachia* strain.** *Scientific Reports*. 11(1):1–9. doi: 10.1038/s41598-021-90857-5

- Detcharoen, M., Arthofer, W., Jiggins, F. M., Schlick-Steiner, B. C., & Steiner, F. M. (2020). ***Wolbachia* affect behavior and possibly reproductive compatibility but not thermoresistance, fecundity, and morphology in a novel transinfected host, *Drosophila nigrosparsa*.** *Ecology and Evolution*. 10(10):4457–4470. doi:10.1002/ece3.6212

- Detcharoen, M., Arthofer, W., Schlick-Steiner, B.C., Steiner, F.M. (2019). ***Wolbachia* megadiversity: 99% of these microorganismic manipulators unknown.** *FEMS Microbiology Ecology*, *95*(11):fiz151. doi:10.1093/femsec/fiz151

- Hawlitschek, O., Morinière, J., Lehmann, G. U. C., Lehmann, A. W., Kropf, M., Dunz, A., … Haszprunar, G. (2017). **DNA barcoding of crickets, katydids and grasshoppers (Orthoptera) from Central Europe with focus on Austria, Germany and Switzerland**. *Molecular Ecology Resources*, *17*(5), 1037–1053. doi:10.1111/1755-0998.12638

- Nguyen, V. X., Detcharoen, M., Tuntiprapas, P., Soe-Htun, U., Sidik, J. B., Harah, M. Z., … Papenbrock, J. (2014). **Genetic species identification and population structure of *Halophila* (Hydrocharitaceae) from the Western Pacific to the Eastern Indian Ocean**. *BMC Evolutionary Biology*, *14*(1), 92. doi:10.1186/1471-2148-14-92