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Supawadee Poompuang is a professor in the Department of Aquaculture. Her research focuses on aquaculture genetics and the application of genome technologies of important species in Thailand. Current project includes selective breeding and improving genomic prediction for production traits in Asian seabass.

Education:

B.S. (Fisheries) 1985, Kasetsart University, Bangkok, Thailand
M.S. (Animal Science) 1993, University of California, Davis, CA, USA
Ph.D. (Fisheries and Wildlife Sciences) 1998, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA

Selected publications (2015-2022):

1. Kanjanaworakul P., Srisapoome P., Sawatdichaikul O., **Poompuang S.** 2015. cDNA structure and the effect of fasting on myostatin expression in walking catfish (*Clarias macrocephalus*, Günther 1864). Fish Physiology and Biochemistry 41:177-191.
2. Kanjanworakul P., Sawatdichaikul O., **Poompuang S**. 2016. cDNA structure and protein bioinformatics analyses of MSTN in African catfish (*Clarias gariepinus*). Molecular Biology Reports 43: 283-293.
3. Wonmongkol P, Sukhavachana S, Ampolsak K, Srisapoome P, T Suwanasopee T, **Poompuang S**. 2018. Genetic parameters for resistance against *Flavobacterium columnare* in Nile tilapia *Oreochromis niloticus* (Linnaeus, 1758). Journal of Fish Diseases 41:321-328.
4. Onming S., Thongda W., Li C., Sawatdichaikul O., McMillan N., Klinbunga S., Peatman E., **Poompuang S.** 2018. Bioinformatics characterization of a *cathepsin B* transcript from the giant river prawn, *Macrobrachium rosenbergii*: homology modeling and expression analysis after *Aeromonas*

hydrophila infection. Comparative Biochemistry and Physiology, Part B **221-222**:18-28.

5. Joerakate W., Yenmak S., Senanan W., Tunkijjanukij S., Koonawootrittriron S., **Poompuang S**. 2018. Growth performance and genetic diversity in four strains of Asian sea bass (*Lates calcarifer*) cultivated in Thailand. Agriculture and Natural Resources 52:93-98.
6. Yenmak S., Joerakate W., **Poompuang S**. 2018. Prediction of fillet yield in hatchery populations of Asian sea bass, *Lates calcarifer* (Bloch, 1790) using body weight and measurements. International Aquatic Research 10: 253-261. Doi.org/10.1007/S400-11-018-0202-9
7. Sukhavachana S., **Poompuang S**., Onming S., Luengnaruemitchai A. 2019. Heritability estimates and selection response for resistance to *Streptococcus agalactiae* in red tilapia *Oreochromis* spp. Aquaculture 502: 384-390.
8. Suebsong W., **Poompuang S**., Srisapoome P., Koonawootrittriron S., Luengnaruemitchai A., Johansen H., Rye M. 2019. Selection response for *Streptococcus agalactiae* resistance in Nile tilapia. Journal of Fish Diseases 42:1553-1562.
9. Sukhavachana S., Tongyoo P., Massault C., McMillan N., Luengnaruemitchai A., **Poompuang S**. 2020. Genome-wide association study and genomic prediction for resistance against *Streptococcus agalactiae* in hybrid red tilapia (*Oreochromis* spp.). Aquaculture 525.
10. Sukhavachana S., Ampolsak K., **Poompuang S**. 2020. Positive Genetic Correlation between Resistance to Aeromonasis and Streptococcosis in Nile Tilapia *Oreochromis niloticus* (Linnaeus, 1758*).* Journal of Fisheries and Environment 44: 45-54.
11. Pattarapanyawong N., Sukhavachana S., Senanan W., Srithong C., Joerakate W., Tunkijjanukij S., **Poompuang S**. 2021. Genetic parameters for growth and fillet traits in Asian seabass (*Lates calcarifer*, Bloch 1790) population from Thailand. Aquaculture 539 (2021) 736629.
12. Sukhavachana S., Senanan W., Pattarapanyawong N., Srithong C., Joerakate W., Tunkijjanukij S., **Poompuang S**. 2021. Multiple-trait genomic prediction of harvest and fillet traits in Asian seabass (*Lates calcarifer*, Bloch 1790). Aquaculture 544 (2021) 737069.
13. Sukhavachana S., Tongyoo, P., Luengnaruemitchai A., **Poompuang S**. 2021. Optimizing genomic prediction using low-density marker panels for streptococcosis resistance in red tilapia (*Oreochromis* spp.). Animal Genetics 52: 667-674. doi: 10.1111/age.13114.
14. Sukhavachana S., Senanan W., Tunkijjanukij S., **Poompuang S**. 2022. Improving genomic prediction accuracy for harvest traits in Asian seabass (*Lates calcarifer*, Bloch 1790) via marker selection. Aquaculture 550 (2022) 737851.
15. Prochaska J., **Poompuang S**., Koonawootrittriron S., Sukhavachana S., Na-Nakorn U. 2022. Evaluation of a commercial SPF *Litopenaeus vannamei* shrimp breeding program: Resistance to infectious myonecrosis virus (IMNV), Taura syndrome virus (TSV), and white spot syndrome virus (WSSV) from laboratory challenges. Aquaculture 554 (2022) 738145.