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Tropical Animal Genetic Unit (TAGU)

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Under the direction of



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Animal Breeding and Genetics

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Research Programs

- Characterization of genetic, environment, and economic factors affecting economically important traits and profit of livestock production in the tropics
- Development of genetic model and strategy for genetic selection fitted to livestock populations in tropical environment
- Applying molecular biology and bioinformatics for genetic selection and production improvement of livestock raised under tropical condition
- Estimation genetic parameters and genetic trends for economically important traits of livestock population in the tropic

Research Activities



Our research areas are aimed to improve traits of economic importance of animals by applying molecular biology and bioinformatics to genetic selection.

Selected Publications:

- Chansomboon, C., M.A. Elzo, **T. Suwanasopee**, and S. Koonawootrittriron. 2010. Estimation of genetic parameters and trends for weaning-to-first service interval and litter traits in a commercial Landrace-Large White Swine population in Northern Thailand. *Asian-Aust. J. Anim. Sci.* 23: 543-555.
- Chansomboon, C., M.A. Elzo, **T. Suwanasopee**, and S. Koonawootrittriron. 2009. Genotypic polymorphisms for Adiponectin and Follicle Stimulating Hormone Receptor genes related to weaning-to-first service interval and litter traits in a swine population in Northern Thailand. *Thai J. Agric. Sci.* 42: 237-245.
- Chansomboon, C., M.A. Elzo, **T. Suwanasopee**, and S. Koonawootrittriron. 2009. Genetic and environmental factors affecting weaning-to-first service interval in a Landrace-Large White swine population in Northern Thailand. *Kasetsart J. (Nat. Sci.)* 43: 669-679.
- Hoonwan, C., S. Koonawootrittriron, **T. Suwanasopee**, and B. Chomtee. 2009. Factors affecting growth and body size of a commercial swine population in Thailand. *Khon Kaen Agricultural Journal*. (Thai; In Press).
- Punsanit, T., S. Koonawootrittriron, **T. Suwanasopee**, K. Markvichit, B. Chomtee and M. A. Elzo. 2009. Effect of proportion of female piglet born alive on pre-weaning growth traits in a Pietrain population in Thailand. *Khon Kaen Agricultural Journal*. 37: 23-30.
- Pholsing, P., S. Koonawootrittriron, **T. Suwanasopee**, and M. A. Elzo. 2009. Genetic association between age and litter traits at first farrowing in a commercial Pietrain-Large White population in Thailand. *Kasetsart J. (Nat. Sci.)* 43: 280-287.
- Suwanasopee, T.**, J.W. Mabry, S. Koonawootrittriron, P. Sopanarath and S. Tumwasorn. 2006. Estimated Genetic Parameters of Non-Productive Sow Days Related to Litter Size in Swine Raised in Thailand. *Thai Journal of Agricultural Science*. *Thai J. Agric. Sci.* 38: 87-93.
- Glenn, K.L., L. Grapes, **T. Suwanasopee**, D.L. Harris, Y. Li, K. Wilson, and M.F. Rothschild. 2005. SNP analysis of AMY2 and CTSL genes in *Litopenaeus vannamei* and *Penaeus monodon* shrimp. *Animal Genetics* 36:235-236

Research Collaborations

