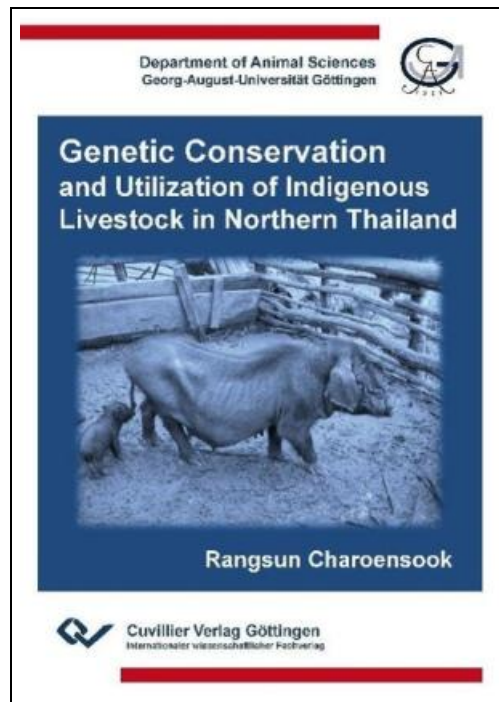


Genetic Conservation and Utilization of Indigenous Livestock in Northern Thailand



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(Dr. Jillian Champlin IV)

GENETIC CONSERVATION AND UTILIZATION OF INDIGENOUS LIVESTOCK IN NORTHERN THAILAND



Cuvillier Verlag Jun 2011, 2011. Taschenbuch. Condition: Neu. Neuware - In recent years livestock production in Thailand has switched from backyard systems to industrialized husbandry. In parallel, exotic livestock was imported to improve production performance and for economically important traits. Indigenous livestock has therefore gradually been used for crossbreeding and was finally replaced completely by exotic commercial breeds. However, these breeding strategies oppose the concepts of sustainability and resource management and will lead to the threatening risk of losing genetic identity and diversity of indigenous breeds. For that reason, the overall goals of this study are to gain genetic information at the molecular level that is indispensable to conserving Thai pigs and cattle breeds as well as to define their potential as genetic resources. In particular, this study is aimed at: (1) to investigate the mtDNA composition and to determine the genetic diversity of pigs indigenous to Northern Thailand, (2) to assess the phylogeny of Thai indigenous pigs, to compare them with further Asian and European pigs and to clarify their origin of domestication, (3) to compare the genetic background of Thai indigenous pigs with commercial pigs used for meat production in Thailand and with selected Chinese pig breeds (i.e. Jiangquhai, Luchuan, Minzhu, Rongchang, Yujiang and Tibetan), (4) to search for sequence polymorphisms within the bovine HSP90AB1, to record physiological responses against heat stress and to describe putative associations between them in three cattle breeds used in Thailand. The complete mtDNA control region (1264-1324 bp depending on the individual) was comparatively sequenced to determine the degree of shared haplotypes, the population structure and the phylogenetic relationships within Thai pig populations. For that, samples of 72 Thai native pigs and 11 Thai wild boars were collected in six regions (i.e. Mae Hongson, Southern and Northern part of Chiang Mai, Chiang Rai,...



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