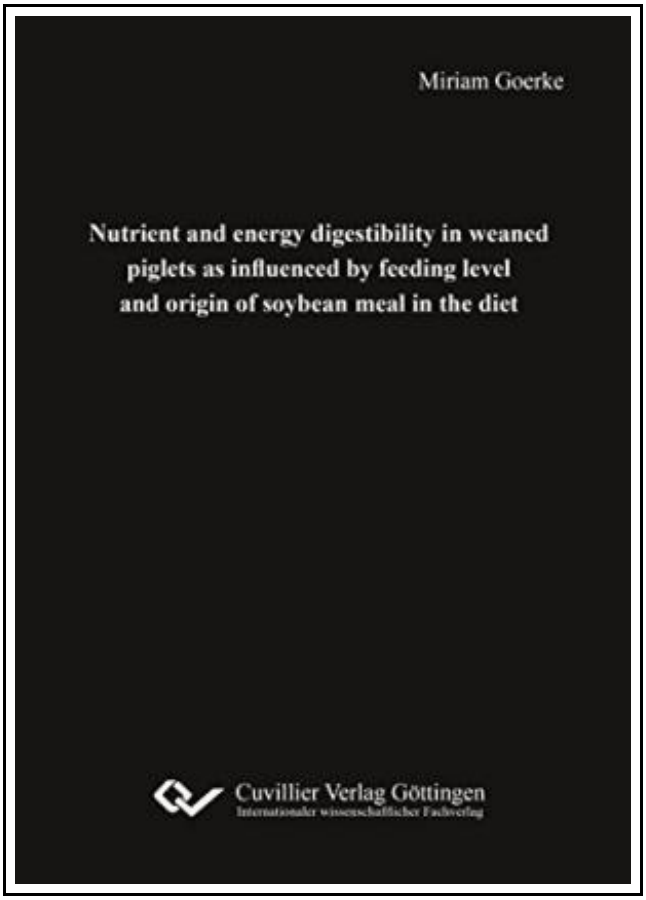
Nutrient and energy digestibility in weaned piglets as influenced by feeding level and origin of soy-bean meal in the diet



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Reviews

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(Mr. Johnathon Dach)

NUTRIENT AND ENERGY DIGESTIBILITY IN WEANED PIGLETS AS INFLUENCED BY FEEDING LEVEL AND ORIGIN OF SOY-BEAN MEAL IN THE DIET

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Cuvillier Verlag Nov 2014, 2014. Taschenbuch. Book Condition: Neu. 213x147x12 mm. Neuware - Feed is the greatest single cost factor in pig production, and protein and energy accounts for the largest proportion of feed costs. Therefore, it is crucial that the protein and energy content of a diet is characterized in the best possible way. Over the past years, the standardized ileal digestibility (SID) of crude protein (CP) and amino acids (AA) has been introduced into diet formulation for pigs in several countries. Moreover, different energy systems are available for feed evaluation including digestible energy (DE), metabolizable energy (ME) and net energy (NE). For soybean meal (SBM), the most commonly used feed ingredient in pig diets, tabulated values for SID of AA in addition to DE, ME or NE contents have been determined in grower-finisher pigs rather than weaned piglets. Due to the lack of separate feed tables for piglets, tabulated values originating from experiments with grower-finisher pigs are being used for diet formulation in piglet feeding, although post-weaning feed intake (FI) is highly variable and often lower than 3 times the maintenance energy requirement of weaned piglets. Thus, it remains open, if values obtained with grower-finisher pigs can be used for piglets as well. Furthermore, in grower-finisher pigs it has been shown that dietary inclusion of SBM sources of different origins may affect SID of CP and AA. The influence of SBM origin on SID of CP and AA in piglets has not been investigated so far. Therefore, the first objective of the present thesis was to determine SID of CP and AA in a large variety of SBM sources sourced from different countries, whereas the second and third objective was to investigate the effect of FI level on apparent ileal digestibility (AID) and SID of CP and AA,...

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