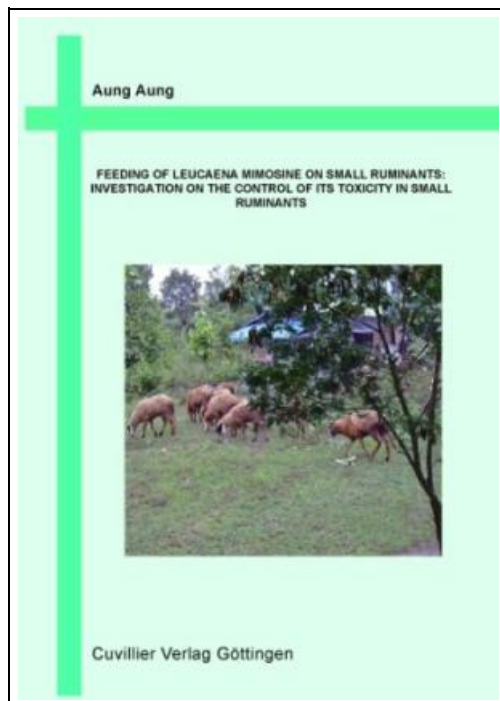


## Feeding of Leucaena Mimosine on Small Ruminats



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Cuvillier Verlag Feb 2007, 2007. Taschenbuch. Condition: Neu. Neuware - Rumen juice was treated with gradually increasing amount of mimosine to develop a bacterium that degrades mimosine by using IBT-Göttinger Bioreactor. At the beginning, the amount of mimosine was 25 mg/d and 25 mg mimosine was increased every two days. The fermentation period was 16 d and final amount of mimosine was 200 mg/d. Samples treated with 200 mg mimosine /d showed mimosine degradation within 3 -7 d. After fermentation for selection, mimosine degrading ruminal bacterium was isolated and identified using bacterial staining, PCR amplification and DNA sequencing. According to identification, it was known as one of *Klebsiella pneumoniae* spp. Another mimosine degrading ruminal bacteria, *Synergistii jonesii* was provided from USDA to compare mimosine degradability with new isolate. These bacteria were multiplied with IBT-Göttinger Bioreactor and preserved for storage to use in farm by freeze-drying and incorporation of bacteria in alginate beads. The bacteria preserved were used for field experiment with digestion trial in Myanmar sheep. The experiment included 10 groups and 3 animals in each group. Group I was control group without leucaena feed and group II was control group fed toxic level of leucaena feed. The animals from group III-X were inoculated with mimosine degrading bacteria to observe and compare mimosine degradability of different types of preservation, dosage (once and 14 days continuous inoculation) inoculation and strains of mimosine degrading bacteria. The experimental period consisted of 7 d for preliminary experiment, 14 d for feeding trial and 5 consecutive days for collection of faecal and urine samples. All diets were adjusted to be isonitrogenous at the feeding level. Dietary treatments were weekly adjusted by the supplements at the level of crude protein not less than 17%. The animals from group II showed symptom of leucaena toxicosis although the...



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