

Einladung zum Kolloquium

Thema **Livestock Genomics: From Quantitative Trait Loci To Gene Expression Data Analysis**

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Abstract

The use of estimated breeding values (genetic potential) of animals to produce milk, meat, egg etc in selective animal breeding over the last decades has resulted in substantial improvement in animal production. These methods, however, were/are based only on phenotypic performance data. Advances in molecular genetics and in our understanding of the genome opens up possibilities of identifying best animals at the genomic level in addition to, at the phenotypic level. This talk will give a general introduction to mapping genes that affects complex quantitative traits (Quantitative Trait Loci), briefly discuss two methods for mapping QTL affecting categorical variables, and outline practical application of QTL detection in livestock breeding programs. Finally linking results from QTL studies with those from gene expression studies are discussed.

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