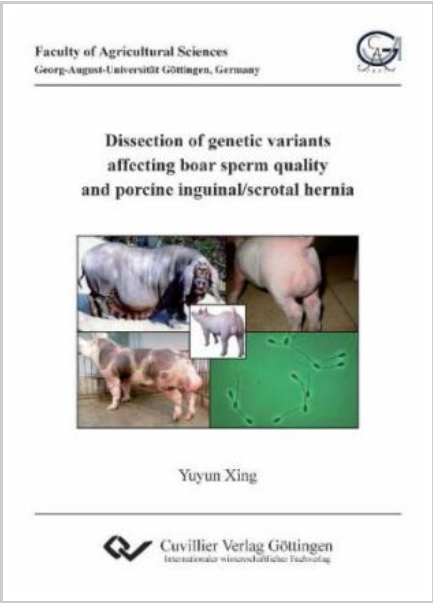

Dissection of genetic variants affecting boar sperm quality and porcine inguinal/scrotal hernia

By Yuyun Xing

Cuvillier Verlag Jul 2010, 2010. Buch. Book Condition: Neu. 209x147x9 mm. Neuware - With the widespread application of artificial insemination (AI) in the pig industry, it is importantfor boars to produce excellent semen because of the high boar-to-sow ratio when using AImating. In addition, the pig is a good animal model for human disease. The genetic study of boarsperm quality can afford referenced information for human fertility research. We performed agenome-wide scan in a White Duroc × Erhualian three-generation resource population for semenquality and ejaculation traits. Phenotype data were collected on 206 F2 boars for 8 traits,including semen volume, sperm concentration, total sperm per ejaculate, sperm motility, spermabnormality rate, pH value, ejaculation times and ejaculation time. All these 8 traits showedremarkable variation among the F2 population. All founders, F1 animals and F2 boars weregenotyped for 183 markers covering 18 autosomes and X chromosome. A quantitative trait loci(QTL) analysis was performed using a composite regression interval mapping method. A total of18 QTL were obtained comprising 4 genome-wide significant QTL and 14 suggestive QTL. The4 genome-wide significant QTL each for semen pH on Sus scrofa chromosome (SSC) 2 andSSC12, for semen volume on SSC15 and for ejaculation times on SSC17 were detected....

Reviews

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