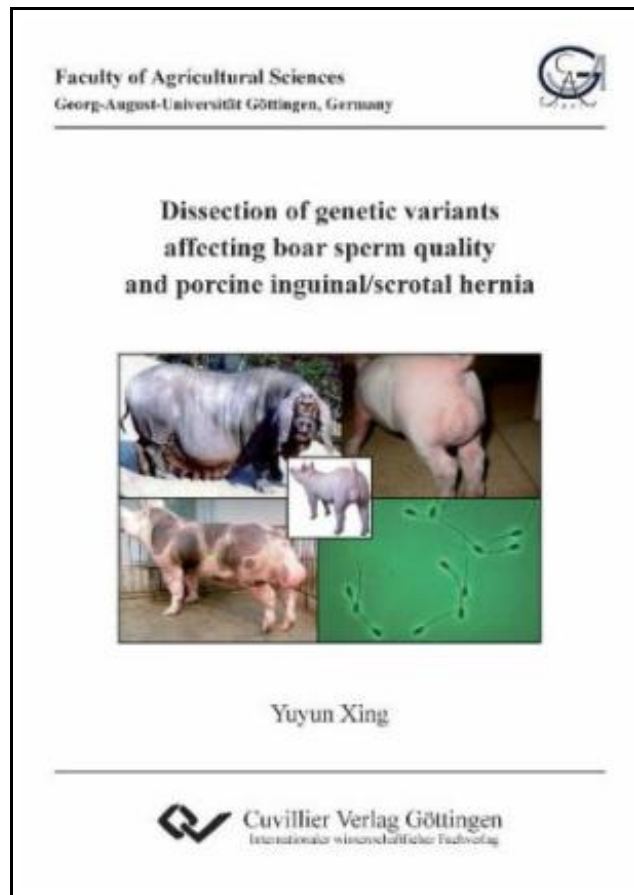


Dissection of genetic variants affecting boar sperm quality and porcine inguinal/scrotal hernia



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DISSECTION OF GENETIC VARIANTS AFFECTING BOAR SPERM QUALITY AND PORCINE INGUINAL/SCROTAL HERNIA

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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 important for boars to produce excellent semen because of the high boar-to-sow ratio when using Al mating. In addition, the pig is a good animal model for human disease. The genetic study of boar sperm quality can afford referenced information for human fertility research. We performed a genome-wide scan in a White Duroc × Erhualian three-generation resource population for semen quality 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, sperm abnormality rate, pH value, ejaculation times and ejaculation time. All these 8 traits showed remarkable variation among the F2 population. All founders, F1 animals and F2 boars were genotyped 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 of 18 QTL were obtained comprising 4 genome-wide significant QTL and 14 suggestive QTL. The 4 genome-wide significant QTL each for semen pH on Sus scrofa chromosome (SSC) 2 and SSC12, for semen volume on SSC15 and for ejaculation times on SSC17 were detected. The suggestive QTL were found affecting semen volume on SSC3 and SSC18, sperm concentration on SSC17, total sperm per ejaculate on SSC1 and SSC2, sperm motility on SSC1, sperm abnormality rate on SSC4 and SSC9, pH value on SSC6 and SSC9, ejaculation times on SSC6 and SSC16, ejaculation time on SSC6 and SSC17. The QTL explained 5.74-11.83% of the F2 phenotypic variance. Hernia is one of the most common congenital defects in pigs. Porcine inguinal/scrotal hernia often causes animal welfare problems and significant economic loss. In this thesis, we characterized the porcine SRY-related high-mobility group (HMG) 9 (SOX9) and evaluated its association with inguinal/scrotal hernia. The mRNA sequence of...



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