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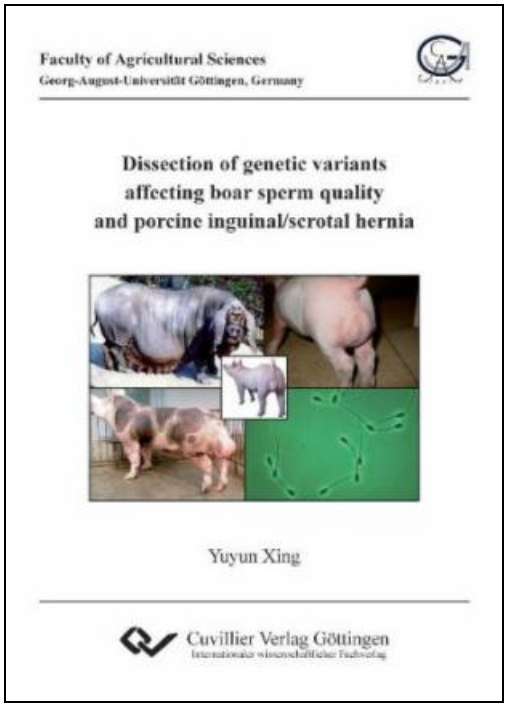

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DISSECTION OF GENETIC VARIANTS AFFECTING BOAR SPERM QUALITY AND PORCINE INGUINAL/SCROTAL HERNIA

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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 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. Thesuggestive QTL were found affecting semen volume on SSC3 and SSC18, sperm concentrationon SSC17, total sperm per ejaculate on SSC1 and SSC2, sperm motility on SSC1, spermabnormality rate on SSC4 and SSC9, pH value on SSC6 and SSC9, ejaculation times on SSC6and SSC16, ejaculation time on SSC6 and SSC17. The QTL explained 5.74-11.83% of the F2phenotypic variance.Hernia is one of the most common congenital defects in pigs. Porcine inguinal/scrotal herniaoften causes animal welfare problems and significant economic loss. In this thesis, wecharacterized the porcine SRY-related high-mobility group (HMG) 9 (SOX9) and evaluated itsassociation with inguinal/scrotal hernia. The mRNA sequence of...

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