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## Relationships between reproductive traits of boars and sows being full siblings

### S u m m a r y

Phenotypic correlations between testis size, sexual activity, semen traits of boars and fecundity of their sisters were determined. The study included boars and sows of 990 line matched into 205 brother-sister pairs. Boars and sows were maintained individually from 63 to 180 days of live and fed according to Pig feeding standards. At the age of 180 days of boars testicular volume was measured and their sexual activity as well as semen quality traits evaluated on 3 ejaculates. For estimation of sows' fertility average total number of piglets born and born alive was recorded in 3 first litters. No significant correlation between testes volume and fertility of sows was found in performed investigations. However, significant correlations were found between the average total number of piglets born and born alive in litter and semen concentration of spermatozoa (0,238\*; 0,235\*) and between major defects of spermatozoa (-0,279\*\*; -0,264\*\*), respectively.