

QTL detection for growth and carcass quality traits thanks to a high density SNP chip in pig.

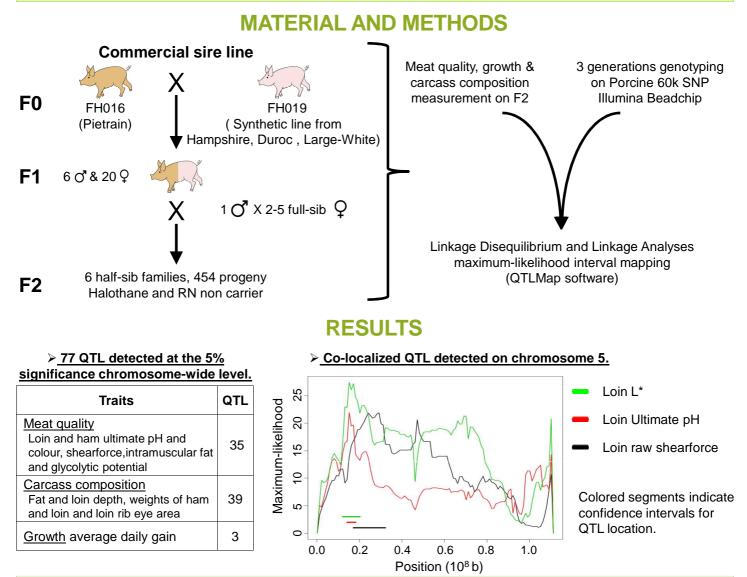


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CONTEXT

Genetic improvement of carcass quality in pig implies traits measurements on related animals. In such situation, marker-assisted selection could lead to greater genetic gain than phenotypic selection. The aim of the study was to carry out a QTL detection experiment for growth and carcass quality traits.



CONCLUSION

Significant QTL were detected in the present study for a large scale of meat quality and carcass production traits. Some of them were co-localized suggesting pleiotropic effects for some chromosomal regions. Additionally, a transcriptome analysis of LM and SM samples, obtained shortly after slaughter, was realized to detect expression QTL.

These data may be useful to identify causal polymorphisms of QTL and to exploit them in efficient marker-assisted selection programs.



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