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# Feeding strategy in organic farming as a lever to improve various quality dimensions of pork

#### Context

Since 2022, the specifications for organic pig production requires feed to be 100% organic, which strengthens the link with the material. The through soil raw consequences of different organic feeding strategies on the intrinsic and extrinsic qualities of pork products are still poorly understood. This work present an experiment to assess the multiple dimensions of quality. It is a part of the National Casdar Farinelli project.

## Objectives

Evaluate the effect of two feeding strategies : Control (in compliance with organic specifications) and Bio+ (rich in fibre, local raw materials: faba bean, linseed) distributed to **non-castrated male pigs** on :

Animal behaviour



n=77 pigs
From 33 kg to 125 kg

Growth performance

 Carcass composition and organoleptic, nutritional and technological quality of meat. Genotype: Piétrain (NN) x Large White Experimental farm INRAE Porganic : straw bedding (1,3 m²/pig) + free outdoor (1,0 m²/pig) Feeding : control and Bio+ growing and finishing iso-proteic and iso-energetic diets





> 0 carcasses downgraded (boar taint) in commercial slaughterhouse

Feeding effect: # : P<0,10; \*: P<0.05 ; \*\*: P<0,01; \*\*\*: P <0,001, ns: P>0.10. Presence of **aromatic** compounds

## **Conclusions and Perspectives**

- Bio+ strategy did not affect growth performance but improved the technological and nutritional properties and some organoleptic properties of pork.
- Future prospects: relationships between the sensory profile and aromatic compounds of pork and integration of experimental results into a systemic review of literature.

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