

# Sensory traits of boar's loins from two halothane genotypes (NN, nn) and diet supplements (magnesium and/or tryptophan)

Generalitat de Catalunya
Poster nº 2817

N.Panella-Riera, M.Font i Furnols, M.Gil, M.A.Oliver IRTA- Monells, 17121, Spain nuria.panella@irta.cat

#### CONCLUSIONS

Meat from NN and nn boars was sensory different, but there were not important sensory differences among meats from animals fed the different supplements studied.

### **1. INTRODUCTION**

Boar taint has been related to the presence of androstenone and skatole adipose tissue of entire male pigs. This work was performed with entire male pigs with the aim of assessing the relationship of the halothane genotype (sensitive and resistant to the stress) and diet supplements (magnesium and/or tryptophan-Trp) to the sensory traits of the meat assessed by 10 trained panellists.

## **3. MATERIALS & METHODS**

Entire male pigs feed ad libitum

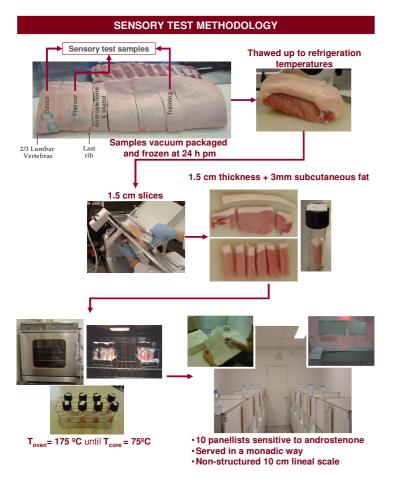
2 halothane genotypes: NN (n=28) and nn (n= 21)

3 diets 5 days before slaughter: Control: Standard diet

Mg&Trp: 0.40% MgSO<sub>4</sub> + 0.70% L-Trp Trp: 0.77 % L-Trp

Same ante mortem treatment Data analysis: Generalized Procrustes Analysis

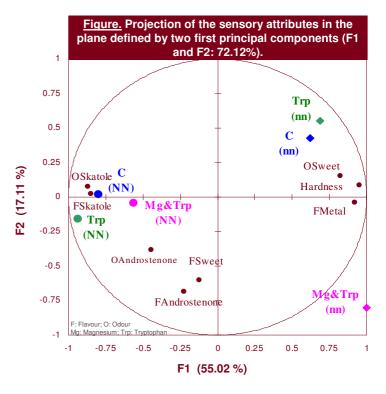
SENSORY ATTRIBUTES EVALUATED		
ODOUR:	androstenone, skatole, sweet	
FLAVOUR:	androstenone, skatole, sweet, metal	
TEXTURE:	hardness	
TEXTURE:	naroness	



### 2. OBJECTIVE

To compare sensory traits of meat from entire male pigs, from two different halothane genotypes (NN and nn) and different diet supplements.

## 4. RESULTS



#### 1<sup>st</sup> dimension (55.02 %)

related to Hardness, Sweet odour and Metal flavour on one side and skatole odour and flavour on the other.



Related to odour and flavour's skatole No discrimination among diets Related to hardness, sweet odour and metal flavour No discrimination among diets

#### 2<sup>nd</sup> dimension (17.11 %)

related to Androstenone and Sweet flavour NN No discrimination among diets nn C and Trp were oppositely located to Mg&Trp

This study is part of a wider project which aimed to assess the effect of magnesium and/or tryptophan as a tranquilizers on the behaviour and meat quality of pigs.

This work was financed by CICYT AGL2002-00777. We thank the 'Departament d'Universitats, Recerca i Societat de la Informació of Generalitat de Catalunya' and 'Fons Social Europeu' for the grant awarded to Núria Panella-Riera to finance her doctoral studies at IRTA.