

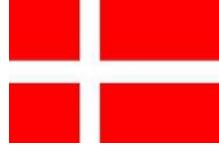


SuSI Prague February 2017

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## WP6 EXPERIMENTAL SETUP





# WP 6 IM, EM, C

	Castrates (C)	Immunocastra- tion (IM)	Entiere males (EM)	No
HIGH Boar taint father	60	60	60	180
LOW Boar taint father	60	60	60	180
No	120	120	120	360

# WP 6 IM, EM, C

## Housing

- Danish standard rules
- 15 pigs per pen individual feeding (transponder)

## Genotype

- D\*LY

Start of trial: Autumn/winter 2017





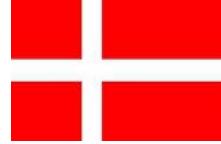
## Gross margin *background*

- Feed utilization
- Daily gain
- Lean meat
- Boar taint
  - S,A,HN
- Price castration
  - Anaesthesia
  - Mortality
- Price immuno castration?

## Gross margin

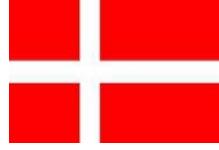
- Testing level? 10%
  - Decides design and pigs/ treatment
- Value of rejected pigs
  - Level for rejection?

# WP6 REGISTRATIONS (FINISHERS 30-115KG)



## Individual

- Live weight at insertion
- Feed intake daily
- Mortality
- Disease
- Carcass weight
- Lean meat
- Boar taint (skatol, androstenon, human nose)



# WP6 OTHER ISSUES

## Time for vaccination

1. At approx. 30 kg insertion in finisher section
2. 4-6 weeks prior to slaughter

## Feed & feeding

- Dry feed (pelleted)
- Ad libitum
- Nutrients in the diet?
  - Suggestion +18% energy and + 15% protein and as



# WP6 OTHER TESTS?



## Carcass quality

- Injuries – carcass
- Distribution of meat
- Meat quality
  - pH
  - Drip loss
  - Colour
  - ....
- Tenderness

## Welfare

- Fighting (30-115 kg)
- Lairage
- Transportation
- Lairage at slaughterhouse
- Penis bite/lesions





# WP6 SAMPLING

## Live pigs

- Blood samples
  1. When?
  2. How many pigs?
  3. How much?
- Faeces
  1. When?
  2. How many pigs?
  3. How much?
- Ulcers
  1. When?
  2. How many pigs?
  3. How much?
- Fat biopsies?

## After slaughter

- Blood samples -sticking?
- Fat samples
  - Where
  - How much
- Meat/cuts
  - Which part



Table 2. Nutrient content for growing-finishing pigs.<sup>1</sup>

Pig weight	30-45 kg	45-65 30-105 <sup>2</sup>	65-105 kg
Mcal / MJ DE/kg feed (NRC)	3.22 / 13.49	3.19 / 13.36	3.16 / 13.23
Mcal/ MJ ME / kg feed (NRC)	3.11 / 13.01	3.09 / 12.92	3.063 / 12.82
Mcal / MJ NE/ kg feed* (NRC)	2.35 / 9.83	2.34 / 9.79	2.34 / 9.79
EW /kg feed, NL	1.06	1.05	1.05
FUgp/kg, DK	1.08	1.07	1.07
MJ DE / ME per FUgp	12.5 / 12.0	12.5 / 12.1	12.4 / 12.0
<b>Total, gram per kg, achieved in the examples (table 5)</b>			
Crude protein	169	154	142
Phosphorus	5.0	4.8	4.5
Calcium	7.5	6.9	6.4
Lysine	10.8	9.4	8.6
Methionine	3.2	2.8	2.6
Met + cys	6.3	5.8	5.4
Threonine	7.1	6.5	6.0

**Energy content per kg diet of a normal complete diet:**

	Feed unit	MJ ME	MJ NE	MJ physiological energy
Lactation diets	1.06 FU sow	13.3	9.6	7.9
Gestation diets	0.99 FU sow	12.6	8.8	7.4
Weaner diets, 6-9 kg	1.18 FU gp	14.4	10.5	8.7
Weaner diets, 9-30 kg	1.17 FU gp	14.1	10.4	8.6
Finisher diets, 30-100 kg	1.07 FU gp	13.4	9.6	7.9