

# WOODEN BREAST

## 27<sup>TH</sup> OF JUNE 2017

# PROJECT ACTIVITIES

## Project design

- 4 houses: Only CO<sub>2</sub> controlled ventilation in house 1
- 2 new with CO<sub>2</sub> sensors
- 2 older without CO<sub>2</sub> sensors

## Sampling:

- ✓ Day 10, 15, 20, 25 and 30  
7, 14, 21, 28 and 34

## Measurements

CO<sub>2</sub> measurements in 4 houses throughout the production period (1/year) House 1, 2, 3  
House 4 is lacking

- ✓ Frequency of wooden breast
- ✓ All 4 houses (determined at slaughter plant)

Wooden breast markers throughout the production period (gene/protein regulation)

# RESULTS – OVER ALL (WB%)

DIFFERENTIATED AND BIOFUNCTIONAL FOODS  
INTERFACE BETWEEN NUTRITION,  
FOOD QUALITY AND HEALTH

| House                        | Hen age | Broiler age | No WB | Mild WB | Sever WB | WB total |
|------------------------------|---------|-------------|-------|---------|----------|----------|
| 1                            | 33      | 23          | 82,5  | 17,5    | 0        | 17,5     |
|                              |         | 29          | 60    | 37,5    | 2,5      | 40       |
|                              |         | 36          | 60    | 32,5    | 7,5      | 40       |
| 2<br>Highest CO <sub>2</sub> | 27      | 21          | 95    | 5       | 0        | 5        |
|                              |         | 28          | 67,5  | 30      | 2,5      | 32,5     |
|                              |         | 34          | 25    | 35      | 40       | 75       |
| 3                            | 31/47   | 21          | 85    | 15      | 0        | 15       |
|                              |         | 28          | 72,5  | 22,5    | 5        | 27,5     |
|                              |         | 34          | 10    | 67,5    | 22,5     | 90       |
| 4                            | 53/58   | 21          | 82,5  | 17,5    | 0        | 17,5     |
|                              |         | 28          | 45    | 45      | 10       | 55       |
|                              |         | 34          | 75    | 22,5    | 2,5      | 25       |

# FARM – BEFORE SLAUGHTER (WB%)

DIFFERENTIATED AND BIOFUNCTIONAL FOODS  
INTERFACE BETWEEN NUTRITION,  
FOOD QUALITY AND HEALTH

| House | Hen age | Broiler age | No WB | Mild WB | Sever WB | WB total |
|-------|---------|-------------|-------|---------|----------|----------|
| 1     | 33      | 36          | 60    | 32,5    | 7,5      | 40       |
|       | 31/36   |             | 70    | 30      | 0        | 30       |
| 2     | 27      | 34          | 25    | 35      | 40       | 75       |
|       | 29      |             | 62,5  | 32,5    | 5        | 37,5     |
| 3     | 31/47   | 34          | 10    | 67,5    | 22,5     | 90       |
|       | 52      |             | 52,5  | 35      | 12,5     | 47,5     |
| 4     | 53/58   | 34          | 75    | 22,5    | 2,5      | 25       |
|       | 51      |             | 65    | 30      | 5        | 35       |

# SLAUGHTER PLANT (WB%)

| House | Hen age | Broiler age | No WB | Mild WB | Sever WB | WB total |
|-------|---------|-------------|-------|---------|----------|----------|
| 1     | 33      | 34          | 68,8  | 29,8    | 1,4      | 31,2     |
| 2     | 27      | 35          | 65,9  | 32,5    | 1,6      | 34,1     |
| 3     | 31/47   | 35          | 62,9  | 31,7    | 5,4      | 37,1     |
| 4     | 53/58   | 35          | 75    | 22,8    | 2,2      | 25       |

# STATUS

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Indledt

Delmål 1: Indkøring af analysemetoder til bestemmelse af biomarkører

Glycogen  
RNA-oprensning



✓ Delmål 2: Indsamling af væv og blodprøver fra kyllinger gennem hele opvæksten

Delmål 2: Analyse af væv og blodprøver

Væv er afvejet og analyser er sat i gang



✓ Delmål 3: Træbrystfrekvens sammenholdt med beregnede O<sub>2</sub> og målte CO<sub>2</sub> niveauer i stalde

Delmål 4: Afrapportering af resultater (præliminær databehandling)

TI rapport  
Frekvens tabeller





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