

SafeOrganic Closing Seminar

Will consumers benefit from restricted antibiotic usage in organic pigs?

Background:

Spread of antibiotic resistant bacteria is a major food safety concern. Reports suggest that the restrictions in use of antibiotics in organic animal farming promote lower levels of antibiotic resistance compared to the conventional production. This is particularly for swine, scarcely documented across EU and knowledge on the contamination of organic meat with antibiotic resistant bacteria is lacking. SafeOrganic partners from Denmark, France, Italy, Sweden and Czech Rep. have been investigating this.

We will show results and discuss:

If levels of antibiotic resistant bacteria differ between organic and conventional pigs in four European countries.

If organic meat tends to be contaminated with antibiotic resistant bacteria from conventional pigs when slaughtered together.

If antibiotic resistance profiles can be used as markers for imprudent use of antibiotics in countries with no central registration of antibiotic use.

How intestinal microbial diversity differs between organic and conventional pigs and if this is reflected in carriage of antibiotic resistance.

More information: [The SafeOrganic Project](#) and [ICROFS News 2013](#)

See enclosed programme.

Sign up for the meeting at latest 24 Oct. 2014: hmiv@food.dtu.dk

Coordinator

Research Leader Søren Aabo / Senior Researcher Annette Nygaard Jensen, Technical University of Denmark (DTU), National Food Institute, Denmark.

Partners:

Dr. Antonia Ricci, Istituto Zooprofilattico Sperimentale delle Venezie ([IZSVe](#)), Italy.

Dr. Martine Denis, French Agency for Food, Environment, and Occupational Health Safety (ANSES), France.

DVM, PhD Björn Bengtsson, National Veterinary Institute (SVA), Sweden.

Prof. Anders Dalsgaard, University of Copenhagen (UCPH), Denmark.

Assoc. Prof. Ivan Rychlik, Veterinary Research Institute (VRI), Czech Republic.



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October 30th 2014, 11:30-15:00

- Venue: National Food Institute, Technical University of Denmark (DTU)
Mørkhøj Bygade 19, 2850 Søborg, Building C, room C-102
- 11:30 Registration and sandwich
- 12:00 Welcome – Introduction to the SafeOrganic project – background and hypothesis (DTU)
- 12:20 Overview of study design and sampling (DTU)
- 12:35 Characteristics of organic and conventional pig production in 4 EU countries (DK, FR, IT and SE) (SVA)
- 12:45 Antibiotic resistance in *E. coli* in organic vs. conventional pigs in 4 EU countries (SVA)
- 13:05 Antibiotic resistance in *Campylobacter* (FR and SE) and in *Salmonella* (FR) in organic vs. conventional pigs (ANSES)
- 13:20 Quantification of selected antibiotic resistance genes in the full intestinal microbiota (VRI)
- 13:35 Coffee
- 13:50 Antibiotic resistance in *E. coli* on organic and conventional pig carcasses at slaughter (ANSES)
- 14:10 May antibiotic resistance patterns be used as markers for antibiotic exposure of organic pig herds? (IZSve)
- 14:25 Intestinal microbial diversity in organic vs. conventional pigs (DTU)
- 14:40 Sum up of project conclusions and discussion (DTU)
- 15:00 End of day

