



8<sup>TH</sup> INTERNATIONAL SYMPOSIUM ON EPIDEMIOLOGY AND CONTROL OF FOODBORNE PATHOGENS IN PORK

*Final scientific program*

**SEPTEMBER 30<sup>TH</sup>, 2009**

<b>Agenda</b>	<b>Activities</b>		<b>Note</b>
<b>8:30 am – 5:00 pm</b>	<b>Registration and poster display</b>	<b>Registration desk and poster area</b>	
<b>Parallel Workshops</b> 9:00 am– 11:45 am  <b>Coffee break</b> 10 :15-10 :45 am	Workshop 1 <b>Room-Georges V</b>	Dr Sylvain Quessy	Development of pork contamination control strategies for transitional countries
	Workshop 2 <b>Room-De la colline</b>	Dr Peter Van der Wolf Dr Jan Dahl	How to develop and implement a <i>Salmonella</i> control program at the national level
	Workshop 3 <b>Room-Laurier 2</b>	Dr Andrijana Rajic	Use of systematic review-meta-analysis to identify best control practices and to understand existing global research on <i>Salmonella</i> in pork
	Workshop 4 <b>Room-Laurier 3</b>	Dr Wondwossen Gebreyes	Molecular epidemiology in surveillance and control programs
<b>11 :45 am- 1 :00 pm</b>	<b>Lunch</b>		
1 :00 – 2 :45 pm	Opening ceremony Guest speakers <b>Room-Des Plaines BC</b>	Special guests Dr Katarina Stärk Dr Scott Hurd	20-30 min 45 min 45 min
<b>2 :45 – 3 :00 pm</b>	<b>Coffee Break</b>		15 min

**Foodborne pathogen epidemiology and control strategies session 1**  
**Chair : Dr Peter Van der Wolf, co-chair : Dr Lis Alban**

<b>Agenda</b>	<b>Name</b>	<b>Title</b>	<b>Note</b>
	<b>Room Des Plaines BC</b>		
3 :00 - 3 :10 pm	Peter Van der Wolf	Summary of posters	10 min
3 :10-3 :30 pm	Lis Alban	Estimated effect of the <i>Salmonella</i> Surveillance-and-Control Programme "SALCONMEAT" on food safety related to pork produced within the programme	20 min
3 :30-3 :45 pm	Jan Dahl	Risk-factors for positive carcass swabs in Danish slaughterhouses	12 min
3 :45 – 4 :00 pm	Julie Ménard	Global <i>Salmonella</i> control in an integrated swine production system	12 min
4 :00-4 :15 pm	Brice Minvielle	Influence of floor type during fattening on pig cleanliness and microbiological contamination of pigs and carcasses	12 min
4 :15-4 :30 pm	Peter Bahnson	Chlorate concentration in the jejunum and cecum in growing pigs when supplemented in feed	12 min
4 :30-4 :45 pm	Amandine Lurette	<i>Salmonella</i> control within the pyramidal structured network of pigs' movements in France	12 min
4 :45-5 :00 pm	Vahan Farzan	Vaccination to control <i>Salmonella</i> shedding and improve growth in pigs	12 min
5 :00-5 :15 pm	Annette O'Connor	Investigating the epidemiology of <i>Salmonella</i> in pork. A systematic review approach from slaughter to cooler	12 min
<b>6 :30- 8 :00 PM</b>	<b>Welcome Cocktail NOUVELLE-FRANCE Cours intérieure ou Abraham Martin</b>	<b>Music and animation</b>	

**October 1<sup>st</sup>, 2009**

**Epidemiology (spatial epidemiology, risk factors, modelling)**

**Chair : Dr Andrijana Rajic, co-chair : Dr Jan Dahl**

<b>Agenda</b>	<b>Name</b>	<b>Title</b>	<b>Note</b>
	<b>Room- Des Plaines ABC</b>		
8 :00 - 8 :10 am	Andrijana Rajic	Summary of posters	10 min
8 :10-8 :30 am	Jan Dahl	Herd and pig-level risk factors for seropositivity in pigs	20 min
8 :30-8 :45 am	Annette O'Connor	Standards for reporting clinical trials: The CONSORT statement for clinical trials in livestock. Application to food safety	12 min
8 :45 – 9 :00 am	Richard Smith	Analysis of Meat Juice ELISA results and questionnaire data to investigate farm-level risk factors for <i>Salmonella</i> infection in UK pigs	12 min
9 :00-9 :15 am	Stefanie Hotes	Prevalence of <i>Salmonella</i> in fattening pigs - Risk factors and spread	12 min
9 :15-9 :30 am	Mary Howell	The development of a tool for slaughterhouses to assess how well <i>Salmonella</i> is controlled in the pork production chain.	12 min
9 :30-9 :45 am	Verena Gotter	A comparative multi-farm study on <i>Salmonella</i> risk factors for pig farms in a high pig density area in Germany	12 min
9 :45-10 :00 am	Wendy Wilkins	Distribution of <i>Salmonella</i> serovars in various pig production categories and risk factors for shedding in ten farrow-to-finish swine farms in western Canada.	12 min
10 :00-10 :15 am	Chiara Francesca Magistrali	Reproductive cycle, number of parities and faecal <i>Salmonella</i> spp. excretion in sows: a longitudinal study	12 min
<b>10 :15-10 :30 am</b>	<b>Coffee Break</b>		

**Molecular Epidemiology and pathogenesis of infection**  
**Chair : Dr Wondwossen Gebreyes , co-chair : Dr Sylvain Quesy**

<b>Agenda</b>	<b>Name</b>	<b>Title</b>	<b>Note</b>
	<b>Room- Des Plaines ABC</b>		
10 :30 - 10 :40 am	Wondwossen Gebreyes	Summary of posters	10 min
10 :40-11 :00 am	Pamela Fry	Hypervirulent Strains of <i>Clostridium difficile</i> of Porcine and Human Origin and Risk to Pork Safety	20 min
11 :00-11 :15 am	Nadia Bergeron	Identification of putative virulence attributes using suppression subtractive hybridization between <i>Salmonella</i> Typhimurium isolates from septicemic and healthy pigs.	12 min
11 :15 – 11 :30 am	Bradley Bearson	Differences in Pathogenesis for <i>Salmonella enterica</i> serovar Typhimurium in the Mouse Versus the Swine Model Identify Bacterial Gene Products Required for Systemic but not Gastrointestinal Disease	12 min
11 :30-11 :45 pm	Marcos Rostagno	Effect of feed withdrawal and transportation on <i>Salmonella enterica</i> infection in market-weight pigs	12 min
11 :45-12 :00 pm	Shao-Hung Wei	Genetic typing and heat resistance of <i>Escherichia coli</i> from pig carcasses during slaughter in a UK slaughterhouse	12 min
12 :00-12 :15 pm	Wondwossen Gebreyes	Population Structure and Molecular Epidemiology of <i>Campylobacter coli</i> Isolates of Porcine Origin from Different Geographic Regions and Production Systems	12 min
12 :15-12 :30 pm	Mélanie Abley	Phenotyping and Genotyping of <i>Campylobacter coli</i> in Pigs from Farm to Fork	12 min
12 :30-12 :45 pm	Peter Van der Wolf	<i>Staphylococcus aureus</i> (MSSA) and livestock-associated MRSA isolated from post-mortem samples from pigs	12 min
<b>12 :45 -1 :45 pm</b>	<b>Lunch-Room Grande-Allée</b>		
<b>1 :45-2 :00 pm</b>	<b>Poster session</b>		

**Viruses, parasites and emerging issues**  
**Chair : Dr Alain Houde, co-chair : Dr Julie Funk**

<b>Agenda</b>	<b>Name</b>	<b>Title</b>	<b>Note</b>
	<b>Room- Des Plaines ABC</b>		
2 :00 - 2 :10 pm	Alain Houde	Summary of posters	10 min
2 :10-2 :30 pm	Wondwossen Gebreyes	Prevalence of methicillin resistant staphylococci (MRS+) in pigs and farm workers	20 min
2 :30-2 :45 pm	Yvan L'Homme	Genetically heterogeneous and prevalent caliciviruses detected in Canadian swine.	12 min
2 :45 – 3 :00 pm	Julie Funk	Injection technology use reported by swine veterinarians in the United States	12 min
3 :00-3 :15 pm	Julie Funk	Prevalence of carcass defects in sows at harvest	12 min
3 :15-3 :30 pm	Bernd-Alois Tenhagen	MRSA in herds of fattening pigs in Germany - Associated risk factors	12 min
3 :30-3 :45 pm	Peter van der Wolf	Transmission of MRSA ST398 between pigs during transport from farm to a slaughterhouse and during time spent in the holding area at the slaughterhouse	12 min
<b>3 :45-4 :00 pm</b>	<b>Coffee Break</b>		

**Detection methods and characterization of microbial and chemical hazards**  
**Chair : Dr Philippe Fravalo, co-chair : Pr Leonidas Leontides**

<b>Agenda</b>	<b>Name</b>	<b>Title</b>	<b>Note</b>
	<b>Room- Des Plaines ABC</b>		
4 :00 - 4 :10 pm	Philippe Fravalo	Summary of posters	10 min
4 :10-4 :30 pm	Leonidas Leontides	The error-adjusted variance partitioning coefficient in the identification of critical control points for <i>Salmonella</i> carcass containment	20 min
4 :30-4 :45 pm	Helen Davies	A rapid, sensitive enrichment PCR to detect <i>Salmonella</i> and ETEC infections in pigs	12 min
4 :45 – 5 :00 pm	Josée Harel	Diagnostic microarrays for antimicrobial resistance bacterial gene (ABG) identification	12 min
5 :00-5 :15 pm	James McKean	Describing the <i>Salmonella</i> classification levels for low-volume production systems utilizing abattoir-based samples and classification stability over time	12 min
5 :15-5 :30 pm	Raoul C. Mainar Jaime	Assessment of the diagnostic accuracy of three commercial ELISAs for the detection of antibodies against <i>Salmonella</i> spp in pigs through Bayesian methods.	12 min
5 :30-5 :45 pm	Wendy Wilkins	A systematic review/meta-regression approach: factors influencing the diagnostic accuracy of bacterial culture and serology used to determine <i>Salmonella</i> status in swine	12 min
5 :45-6 :00 pm	Ursula Rajtak	The influence of acid tolerance response and diet on the survival of <i>Salmonella</i> serotypes through the gastrointestinal tract of pigs	12 min
6 :00-6 :15 pm	Alain Houde	Detection of Hepatitis E virus in swine using real-time RT-PCR	12 min
<b>7 :15 pm</b>	<b>Gala Dinner – Capitol de Québec - Nathalie Choquette Recital</b>		

**October 2nd, 2009**

**Antimicrobial resistance and reduction of antimicrobial agents use**

**Chair : Dr Scott McEwen, co-chair : Mrs Anne Deckert**

<b>Agenda</b>	<b>Name</b>	<b>Title</b>	<b>Note</b>
	<b>Room- Des Plaines ABC</b>		
8 :00 - 8 :10 am	Scott McEwen	Summary of posters	10 min
8 :10-8 :30 am	Anne Deckert	CIPARS Farm Program: Surveillance of antimicrobial use and antimicrobial resistance in Canadian swine herds	20 min
8 :30-8 :45 am	Robert Desrosiers	Reduction of antibiotic usage and performance improvement following the use of a PCV2 vaccine	12 min
8 :45 – 9 :00 am	Bayleyegn Zewde	Association between biocide use and antimicrobial resistance of <i>Salmonella</i> in swine production environment	12 min
9 :00-9 :15 am	Siddhartha Thakur	Phenotypic heterogeneity of <i>Campylobacter coli</i> isolated from conventional and antimicrobial free swine at farm and slaughter	12 min
9 :15-9 :30 am	Egan Brockhoff	A retrospective analysis of a high health commercial pig production system showing improved production and reduced antibiotic use after implementation of PCV2 vaccination	12 min
9 :30-9 :45 am	Joel Nerem	<i>Lawsonia intracellularis</i> vaccination as an alternative to dietary antimicrobial medication in finishing swine	12 min
<b>9 :45-10 :00 am</b>	<b>Coffee Break</b>		

**Risk assessment and public health****Chair : Dr Lis Alban, co-chair : Mr Andrew Hill**

<b>Agenda</b>	<b>Name</b>	<b>Title</b>	<b>Note</b>
	<b>Room- Des Plaines ABC</b>		
10 :00 - 10 :10 am	Lis Alban	Summary of posters	10 min
10 :10-10 :30 am	Lis Alban	Bayesian zero-inflated predictive modelling of herd-level <i>Salmonella</i> prevalence for risk-based surveillance	20 min
10 :30-10 :45 am	Andrew Hill	A risk assessment for <i>Salmonella</i> in pigs in Great Britain	12 min
10 :45 – 11 :00 am	Tina Beck Hansen	Changes in <i>Salmonella</i> prevalence in pork cuttings in supermarkets and butcher's shops in Denmark from 2002 to 2006	12 min
11 :00-11 :15 am	Peter Davies	Methicillin resistant <i>S. aureus</i> in pigs, retail pork, and swine veterinarians in the USA	12 min
11 :15-11 :30 am	Barbara Wilhelm	Hepatitis E virus: potential zoonosis in swine production?	12 min
11 :30-11 :45 am	Siddhartha Thakur	Multidrug Resistant and toxigenic <i>Clostridium difficile</i> isolated from commercial swine and humans	12 min
11 :45-12 :00 am	Sarah Parker	Gathering evidence ñ availability of published information to support zoonotic pathogen prioritization in swine within the Canadian context	12 min
12 :00-12 :15 am	Lis Alban	Risk Assessment for Supply Chain Meat Inspection of Danish Finisher Pigs	12 min
<b>12 :15 -1 :30 pm</b>	<b>Lunch-Room Grande-Allée</b>		
<b>1 :30-2 :00 pm</b>	<b>Poster session</b>		

## Foodborne pathogen epidemiology and control strategies session 2

Chair : Dr David Hamilton, co-chair : Dr Ann Letellier

Agenda	Name	Title	Note
	<b>Room- Des Plaines ABC</b>		
2 :00 - 2 :10 pm	David Hamilton	Summary of posters	10 min
2 :10-2 :30 pm	David Hamilton	Decontamination of pork carcasses with hot water or acidified sodium chlorite - a comparison in two Australian abattoirs	20 min
2 :30-2 :45 pm	Dimitri Arijs	Hygienograms for application in evaluation of cleaning and disinfection protocols in pig facilities	12 min
2 :45 – 3 :00 pm	Alda Pires	The effect of thermal environment on <i>Salmonella</i> shedding in finishing pigs	12 min
3 :00-3 :15 pm	Philip Richards	How can current slaughter and dressing procedures in UK pig slaughterhouses be improved to reduce contamination of pig meat with pathogenic bacteria?	12 min
3 :15-3 :30 pm	Sarah Parker	Food safety on the farm - a survey of Saskatchewan swine producers for their food safety knowledge and farm management practices	12 min
3 :30-3 :45 pm	Bernd-Alois Tenhagen	Association of <i>Salmonella</i> in slaughter pigs with farm management factors	12 min
3 :45-4 :00 pm	Vahab Farzan	Monitoring of <i>Salmonella</i> , <i>Campylobacter</i> , <i>Yersinia enterocolitica</i> , <i>E. coli</i> O157, and <i>Listeria monocytogenes</i> on a subset of Canadian swine farms	12 min
4 :00-4 :15 pm	Truls Nesbakken	Absence of <i>Campylobacter</i> in some Norwegian Specific Pathogen Free (SPF) Pig Herds	12 min
<b>4 :15-5 :00 pm</b>	<b>GUEST SPEAKER: SUMMARY OF SAFE PORK 2009 - Dr Peter Davies</b>		45 min
<b>5 :00-5 :30 pm</b>	<b>AWARD FOR THE BEST STUDENT PRESENTATION AND VOTE FOR THE NEXT VENUE 2011</b>		
<b>5 :30 pm</b>	<b>AU REVOIR COCKTAIL!</b>		