



COST Action 920 – Food-borne zoonosis: a co-ordinated food-chain approach

WG2/WG4 Joint Meeting

"New technologies in the food chain and emerging zoonotic agents "

Program

Date and Place: October 3-5, 2004 (from 14:30 on October 3rd to 13:00 on October 5th, 2004), Bertinoro, Bologna, Italy.

Sunday 3rd October

14:30 Welcome to participants

(A. Franchini)

14:40 Wrap up of the activities of WG2 and WG4: previous meetings, STMS

(A. Ammon, P. Colin)

SESSION 1: Influence of new technologies along the food chain on the emergence or selection of new pathogens

Chairs: P. Colin, B. Nagy

15:00 Food safety aspects of the modern low heat food processing

S. Knochel (Institute of Food Science, Royal Veterinary and Agricultural University, Denmark)

15:30 Microbial biofilm in food industry

B. Carpentier (AFSSA, Maisons-Alfort, France)

16:00-16:20 Coffee break and Poster Session

16:30 The use of Lactic Acid Bacteria to control zoonotic pathogens

M. Chemaly (AFSSA, Ploufragan, France)

17:00 Metalloproteins modulating Salmonella-host interaction: superoxide dismutases and ovotransferrin

P. Valenti (Facoltà di Medicina e Chirurgia, II Università, Napoli, Italy)

17:15 Risk factors for mortality in invasive human listeriosis - Denmark 1994-2003

P. Gerner-Smidt (Statens Serum Institute, Denmark)

18:00 Visit of grapes processing plants and degustation of wine and typical Romagna food products

Monday 4th October

SESSION 2: Swine as a source of emerging zoonosis

Chairs: A. Caprioli, J. E. Olsen

9:00 Hepatitis E Virus infections: an emerging zoonosis

M. Martin (Veterinary School, University of Barcelona)

9:30 Emerging clones of *Salmonella enterica* serotype Typhimurium and 4,5,12:i of swine origin

A. Ricci (Istituto Zooprofilattico Sperimentale delle Venezie, Legnaro, Padua, Italy)

10:00 Hepatitis E virus in pigs in the Netherlands

M. Bouwknegt (Wageningen University, The Netherlands)

10:15 The Styrian *Salmonella* Surveillance Program for Pork production

P. Wagner (Department of Veterinary Administration, Styrian Government, Austria)

10:30-10:50 Coffee break and Poster Session

11:00 A family cluster of haemorrhagic colitis caused by consumption of *Escherichia coli* O157 contaminated salame in Italy

G. Conedera (Istituto Zooprofilattico Sperimentale delle Venezie, Laboratorio di Pordenone, Italy)

11:15 First isolation of Noroviruses from clinical samples in Poland

B. Mizak (National Veterinary Research Institute, Poland)

11:30 *Yersinia pseudotuberculosis* infections traced to fresh carrots

J. Takkinen (National Public Health Institute, Finland)

11:45 Bovine non-EHEC O157:H7 strains as a source of emerging concern?

I. Toth (Veterinary Medical Research Institute of the Hungarian Academy of Sciences, Hungary)

12:00 Antimicrobial resistant *Salmonella* in imported and domestically produced fresh meat as a source of human infections – the Danish experience

S. Aabo (Danish Institute for Food and Veterinary Research, Denmark)

12:15 Distribution of *toxB*, an *Escherichia coli* O157 virulence gene, among Attaching and Effacing *E. coli* (AEEC)

S. Morabito (Istituto Superiore di Sanità, Rome, Italy)

12:30 Predominant role of active efflux in the acquisition of resistance character in *in vitro*-selected enrofloxacin, ciprofloxacin, and nalidixic acid resistant mutants of *Salmonella enterica* serovar Typhimurium

F. Pasquali (Department of Food Science, Alma Mater Studiorum-University of Bologna)

13:00-14:50 Lunch

SESSION 3: The role of the environment in the transmission of food-borne zoonotic pathogens inside and outside the farm

Chairs: A. Ammon, A. Ricci

15:00 The fate of food-borne pathogens in animal wastes

G. Duffy (The National Food Center, Teagash, Dublin)

15:30 Emerging Campylobacteriaceae in the food and water chain: the CAMPYCHECK project

B. Keevil (School of Biological Sciences, University of Southampton, UK)

16:00-16:20 Coffee break and Poster Session

16:30 Furanones as potential inhibitors of pathogen growth

M.E. Guerzoni (DIPROVAL, Alma Mater Studiorum-University of Bologna, Italy)

17:00 *Salmonella* survival in Amoeba from cattle slurry

J. E. Olsen (Department of Veterinary Pathobiology, The Royal Veterinary and Agricultural University, Denmark)

17:15 Prevalence of *Clostridium botulinum* in foods and environmental samples

P. Fach (AFSSA, Maisons-Alfort, France)

17:30 *Staphylococcus aureus* isolates in possession of pyrogenic toxin superantigens and recovered from human nasal samples and manually handled foods fell into the same genomic groupings

M. Gonzalez-Hevia (Laboratory of Public Health, Spain)

20:00 Farewell dinner

Tuesday 5th October

SESSION 4: Poultry as a source of emerging zoonosis

Chair: M.E. Guerzoni, C. Thorns

9:00 Avian reservoirs of Epsilonbacteria (Arcobacter, Campylobacter, Helicobacter): a public health perspective

S.L. On (Danish Institute for Food and Veterinary Research, Copenhagen, Denmark)

9:30 Avian botulism in France

G. Salvat (AFSSA, Ploufragan, France)

10:00-10:20 Coffee break and Poster Session

10:30 *Helicobacter pullorum*, an emerging zoonotic pathogen?

L. Ceelen (Department of Pathology, Bacteriology and Avian Diseases, Faculty of Medicine Science, Ghent University, Belgium)

10:45 *Arcobacter*, an ignored foodborne pathogen

K. Houf (Department Veterinary Public Health, Ghent University, Belgium)

11:00 *Campylobacter* in Norwegian poultry a disappearing problem?

M. Hofshagen (Norwegian Zoonosis Centre, National Veterinary Institute, Norway)

11:15 Zoonosis control within the scope of the Austrian Poultry Health Service (GGD)

H. Schliessnig (Austrian Poultry Health Service, Austria)

11:30 Contamination level of *Campylobacter* in Italian poultry carcasses

V. Bondioli (Department of Food Science, Alma Mater Studiorum-University of Bologna)

11:45 Concluding remarks and discussion on forthcoming activities and meetings

C.Thorns

13:00 Close

Poster Session

Molecular epidemiology of the emergent drug-multiresistant type of *Salmonella* serotype Typhimurium carrying the hybrid virulence-resistance plasmid pUO-StVR2

M.A. González Hevia et al., A. Herrero, M. Bances^a, I. Rodríguez^b, N. Martínez^b, M.C Martín^b, M.R. Rodicio^b and M.C. Mendoza^b (^a Laboratorio de Salud Pública del Principado de Asturias 33011 –Oviedo, Spain, ^b Departamento de Biología Funcional-Microbiología. Universidad de Oviedo, Spain)

Phage Typing and antimicrobial resistance in *S.Typhimurium* and *S.Enteritidis* from human and animals in Italy in 2003 (Enter-Net and Enter-Vet Surveillance)

C. Graziani^a, L. Busani^a, A. Ricci^b, D. Vio^b, S. Arena^a, S. Owczarek^a, A. Caprioli^a and I. Luzzi^a (^aIstituto Superiore di Sanità, Rome ; ^bIstituto Zooprofilattico Sperimentale delle Venezie, Legnaro, Padova)

Exposure assessment of Salmonella in pork in Belgium

Y. Ghafir¹, N. Korsak¹, B. China¹, K. Dierick², JM Collard², L. De Zutter³ and G. Daube¹
(¹ Food Microbiology, Faculty of Veterinary Medicine, University of Liege, Belgium, ² Public Health Institute, Brussels, Belgium, ³ Hygiene and Technology, Faculty of Veterinary Medicine, University of Ghent, Belgium)

Prevalence of antibodies to hepatitis E virus in veterinarians working with swine and in swine workers in Italy.

F. Ostanello¹, A. Caprioli¹, G. Malenchini², G. Furlini³ (¹ Dipartimento di Sanità Pubblica Veterinaria e Patologia Animale – Università di Bologna; ² Servizio di Sicurezza, Igiene e Medicina del Lavoro – Università di Bologna; ³ Unità Operativa di Microbiologia – Policlinico S. Orsola – Bologna-Italy)

Re-emergence of Salmonella Enteritidis in Sicily, 2002-2003

C. Mammaia¹, A. M. Di Noto², A. Ricci³, A. Nastasi⁴ (¹ Centro Enterobatteri Patogeni dell'Italia Meridionale, Dipartimento Igiene e Microbiologia, Università di Palermo, ² Istituto Zooprofilattico Sperimentale della Sicilia, Palermo, ³ Istituto Zooprofilattico Sperimentale delle Venezie, Padova, ⁴ Dipartimento di Sanità Pubblica, Università di Firenze)

Whole genome comparison of enterohemorrhagic E. coli: definition of the minimum genomic core for pathogenicity

S. Morabito, R. Tozzoli and A. Caprioli (Laboratorio di Medicina Veterinaria, Istituto Superiore di Sanità, 00161, Rome, Italy)

Horizontal transmission of Escherichia coli O157:H7 during cattle housing

L. Scott¹, P. McGee², N. Leonard¹, J. Sheridan² and B. Earley³ (¹ Faculty of Veterinary Medicine, University College Dublin, Dublin 4, Ireland, ² Teagasc, The National Food Centre, Ashtown, Dublin 15, Ireland and ³ Teagasc, Grange Research Centre, Dunsany, Co. Meath, Ireland)

Typing of Campylobacter jejuni strains of poultry and human origin

I. Steinhäuserová, M. Nebola, M. Mikulicová (University of Veterinary and Pharmaceutical Sciences Brno, Czech Republic)

Meeting place

University Residential Centre of Bertinoro

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