



MED•VET•NET

## 3rd Annual Scientific Meeting **PROGRAMME**

27–30 June 2007, Lucca, Italy



# Programme Overview

Wednesday 27th June		
14.45-15.30	Poster Viewing (Room "La Cavalla Storna")	
15.30-15.45	Opening Session (Room "Pascoli")	
15.45-16.30	Keynote Lecture 1 : Professor Sir Howard Dalton (Room "Pascoli")	
16.30-17.00	Tea/Coffee (Terrace)	
17.00-18.45	Oral Presentations "Detection & Control" (Room "Pascoli")	Oral Presentations "Host-Microbe Interactions" (Room "L'Ora di Barga")
19.00-20.00	Welcome cocktails (Pool side)	
20.00-21.30	Dinner (Restaurant "La Veranda")	
Thursday 28th June		
09.00-09.45	Keynote Lecture 2 : Professor Ben van der Zeijst (Room "Pascoli")	
09.45-10.45	Oral Presentations "Molecular Epidemiology" (Room "Pascoli")	Oral Presentations "General Interest" (Room "L'Ora di Barga")
10.45-11.00	Tea/Coffee (Terrace)	
11.00-13.00	Oral Presentations "Epidemiology" (Room "Pascoli")	Oral Presentations "New and Emerging Zoonoses" (Room "L'Ora di Barga")
13.00-14.30	Lunch (Restaurant "La Veranda")	
14.30-16.00	Poster session (Room "La Cavalla Storna")	Workpackage Leaders' Meeting (Room "Pascoli")
16.00-16.30	Tea/Coffee (Terrace)	
16.30-18.15	Panel Discussion (Room "Pascoli")	
18.15-19.00	Keynote Lecture 3 : Professor Nigel French (Room "Pascoli")	
20.00-22.00	Traditional Tuscan Dinner (Restaurant "La Veranda")	
Friday 29th June		
09.00-09.45	Keynote Lecture 4 : Dr Ilaria Capua (Room "Pascoli")	
09.45-10.30	Oral Presentations "Molecular Epidemiology" (Room "Pascoli")	Oral Presentations "New and Emerging Zoonoses" (Room "L'Ora di Barga")
10.30-11.00	Tea/Coffee (Terrace)	
11.00-13.00	Oral Presentations "Risk Research" (Room "Pascoli")	Oral Presentations "General Interest" (Room "L'Ora di Barga")
13.00-14.30	Lunch (Restaurant "La Veranda")	
14.30-16.00	Oral Presentations "General Interest" (Room "Pascoli")	
16.00-16.30	Tea/Coffee (Terrace)	
16.30-18.00	Poster session (Room "La Cavalla Storna")	
18.00-18.45	Keynote Lecture 5 : Professor Jan Sargeant (Room "Pascoli")	
18.45-19.00	Closing Session (Room "Pascoli")	
20.00-21.30	Dinner (Restaurant "La Veranda")	
Saturday 30th June		
08.30-10.30	Special Interest Group and Workpackage Business Meetings	

## Welcome from Governing Board Chair

On behalf of the Governing Board, I am very pleased to welcome you, participants from Med-Vet-Net and non-Med-Vet-Net members, to the 3rd Annual Scientific Meeting of this Network of Excellence.

This congress will give, once more, an excellent opportunity for specialists in various fields to get together. The resulting exchanges and confrontations of ideas and experiences will be of utmost importance for the scientific community facing daily problems concerning the prevention and the control of zoonoses.

The complexity of this public health mission is very high because it requires, first, competences to analyse and assess the different risk factors and, second, the ability to design and produce suitable tools for prevention, earliest detection and control. It justifies the great interest of the multidisciplinary approach provided by Med-Vet-Net. The quality of these works is crucial because they underlie the choice and the efficiency of disease management options.

Our activities have to be closely connected with those implemented by the community network of assessment agencies coordinated by the European Food Safety Authority

(EFSA). In particular, Med-Vet-Net members should jointly be involved in responses to the calls for tenders of EFSA on research, data collection and data analysis projects.

During this meeting, the current knowledge and recent advancements on some particular aspects of zoonosis will be presented. It will provide favourable



conditions to discuss the main issues to be elucidated in this rapidly growing field.

In accordance with the initial requirements towards the Networks of Excellence, the Governing Board decided in 2006 to implement a plan of sustainability for Med-Vet-Net. Our common involvement in the building and the life of Med Vet Net has demonstrated the added value of this network for each of us and for the prevention and the control of zoonosis. This sustainability issue is becoming increasingly important, and is mainly our responsibility as Governing Board members, and we have to do our best to support the permanent activity and the subsequent sustainable life of our Network.

I would like to thank the members of the Scientific Committee for their excellent work in enabling this delicate project to become reality, and especially Franco Ruggeri, Alfredo Caprioli and Trudy Wassenaar.

I also would thank the persons and the structures particularly involved in the Med-Vet-Net functioning, Prof. Diane Newell, the Communication Unit at SfAM, and the Administration Bureau at Afssa, and the European Commission without which we would not be able to listen to the invited speakers from all over the world. They have all contributed with efficacy to the success of this meeting.

As President of the Governing Board, I wish you a fruitful, productive and enjoyable meeting and I hope that you will find the time to appreciate the charm of this beautiful part of Italy.

Have a good meeting, congratulations and many thanks.

**Valérie Baduel**  
**Governing Board Chair**

## Wednesday 27th June

10.00-14.45	<b>Registration</b> (Hotel Foyer) <b>and buffet lunch</b> (Terrace from 12 pm)	<b>Poster set-up</b> (La Cavalla Storna)
14.45-15.30	<b>Poster viewing</b> (La Cavalla Storna)	
15.30-15.45	<b>Opening Session</b> Welcome <i>Diane Newell, Project Director</i> <i>Introduction by Alfredo Caprioli of Representative of Italian Government</i> <i>Introduction by Diane Newell of Valérie Baduel, Governing Board Chair (Pascoli)</i>	
15.45-16.30	<b>Keynote Lecture 1: 'Effects of climate change on infectious disease'</b> <i>Professor Sir Howard Dalton</i> <i>Chief Scientific Adviser, Defra, United Kingdom</i> <i>Introduced by Diane Newell (Pascoli)</i>	
16.30-17.00	<b>Tea and Coffee break</b>	
17.00-18.45	<b>Oral Presentations: Detection and Control</b> <i>Chairs: Gilles Salvat and Alfredo Caprioli (Pascoli)</i>  <b>D&amp;C02</b> Preparation and evaluation of a recombinant encephalomyocarditis virus VP1 protein for the detection of antibodies in animals and humans by indirect sandwich ELISA <i>Bakkali-Kassimi, L.</i>  <b>D&amp;C19</b> Characterization of <i>Campylobacter jejuni</i> and <i>C. coli</i> isolates collected in slaughterhouses after cleaning and disinfection <i>Sanders, P.</i>  <b>D&amp;C06</b> Virulotyping of <i>Salmonella</i> isolates positive for Genomic Island 1 <i>Beutlich, J.</i>  <b>D&amp;C24</b> Screening Technologies to Reveal Infected Animal Populations with <i>Salmonella</i> Serology as an Example <i>Rutjes, S.</i>	<b>Oral Presentations: Host-Microbe Interactions</b> <i>Chairs: Riny Janssen and Roberto La Ragione (L'Or di Barga)</i>  <b>HMI06</b> Stimulation of Pig Mast Cells by <i>Trichinella</i> Antigens Triggers Th2 Cytokine mRNA Expression <i>Valee, I.</i>  <b>HMI04</b> Comparative Genomics of <i>Escherichia coli</i> O157 Phage Type 8 from Human Infections and Phage Type 21 from Cattle <i>Morabito, S.</i>  <b>HMI10</b> Hepatitis E Virus (HEV) transmission in pigs under controlled conditions <i>van der Poel, W.</i>  <b>HMI08</b> The role of maternal immunity in the lag phase of <i>Campylobacter jejuni</i> infections in broilers <i>Cawthraw, S.</i>

<p>16.45-18.45 cont.</p>	<p><b>Oral Presentations: Detection and Control</b>  <i>Chairs: Gilles Salvat and Alfredo Caprioli (Pascoli)</i></p> <p><b>D&amp;C13</b>  Multi-centre Study of Shiga Toxin-Producing <i>Escherichia coli</i> in Human in The Netherlands  <i>van Duynhoven, Y.</i></p> <p><b>D&amp;C01</b>  Proficiency sample testing for detection of <i>Trichinella</i> larvae in pork  <i>Noeckler, K.</i></p> <p><b>D&amp;C11</b>  Simulations of antibiotic resistance monitoring programmes to evaluate the prevalence of vancomycin resistant enterococci (VRE) in poultry flocks  <i>Barco, L.</i></p>	<p><b>Oral Presentations: Host–Microbe Interactions</b>  <i>Chairs: Riny Janssen and Roberto La Ragione (L’Ora di Barga)</i></p> <p><b>HMI01</b>  The Expression of Virulent-Associated Genes of <i>Campylobacter jejuni</i> upon Co-cultivation with Primary Chicken Embryo Intestinal Epithelial Cells  <i>Li, Y.-P.</i></p> <p><b>HMI03</b>  Early Host response to <i>Salmonella</i> and <i>Campylobacter</i>  <i>Janssen, R.</i></p> <p><b>HMI09</b>  Effect of a probiotic on the poultry gut microflora as revealed by CE-SSCP  <i>Pissavin, C.</i></p>
<p>19.00-20.00</p>	<p><b>Welcome Cocktails</b>  (Panoramic Terrace overlooking the pool)</p>	
<p>20.00-21.30</p>	<p><b>Dinner</b>  (Restaurant La Veranda)</p>	

## Thursday 28th June

09.00- **Keynote Lecture 2: 'The future of vaccine research'**

09.45 *Professor Ben van der Zeijst*

*Director: Netherlands Research Institute*

*Introduced by Jaap Wagenaar*

(Pascoli)

09.45- **Oral Presentations: Molecular Epidemiology**

10.45 *Chairs: John Threlfall and Dik Mevius*

(Pascoli)

**Oral Presentations: General Interest**

*Chairs: Peter Silley and Bruno González*

*Zorn*

(L'Or di Barga)

### MEP16

Development of Two Novel Real Time Assays for the Detection and Characterization of *Salmonella* Genomic Island-1

*Amar, C.*

### RR10

Moral economy of antimicrobial use in animal agriculture

*Scott, H.M.*

### MEP06

DNA microarray for the characterization and typing of *Salmonella*: A New Tool for Risk Analysis

*Huehn, S.*

### NEZ18

The Isolation of *Staphylococcus aureus* strains from raw chicken and pork from retail outlets in the UK: continued determination of antibiotic resistance profiling

*Felder, M.*

### MEP09

Molecular Characterization of a Clonal Multiresistant *Salmonella enterica* I Serotype Virchow Phage-type 19 Containing In60 in Spain

*Herrera, S.*

### NEZ17

*Escherichia coli* cytolethal distending toxin (CDT) I and IV are encoded by related prophages

*Toth, I.*

### MEP11

Association between Presence of Virulence-Related Genes in *Salmonella enterica* subsp *enterica* Isolates and Genomic Patterns

Obtained by Pulsed-Field Gel Electrophoresis

*Brisabois, A.*

10.45- **Tea and Coffee break**

11.00

11.00-  
13.00

### Oral Presentations: Epidemiology

*Chairs: Kumar Sivam and Wilfrid van Pelt (Pascoli)*

#### EPI11

Cattle Density – a Risk Factor for Human Infection with Most Serotypes of Verocytotoxin-producing *Escherichia coli* in Germany  
*Stark, K.*

#### EPI06

General Outbreaks of Infection with Vero Cytotoxin-producing *Escherichia coli* O157 Linked to Open Farms  
*Smith, G.*

#### EPI12

Attribution of Human Salmonellosis to Main Food-borne Sources in Germany  
*Kaesbohrer, A.*

#### EPI02

An Atlas of *Salmonella* Serotypes in Europe Accessible via the Internet  
*Ethelberg, S.*

#### EPI08

Novel Insight into the Association between Salmonellosis or Campylobacteriosis and Chronic Illness, and the Role of Host Genetics in Susceptibility to these Diseases  
*van Pelt, W.*

#### EPI04

Characterization of *Mycobacterium avium* complex isolates from human and environmental samples and evaluation of its clinical significance  
*Alvarez, J.*

### Oral Presentations: New and Emerging Zoonoses

*Chairs: Malcom Banks and Francisco Bolas-Fernandesz (L'Ora di Barga)*

#### NEZ16

Detection of Hepatitis E Virus (HEV) in a Wild Boar Population in Italy  
*Ruggeri, F.*

#### NEZ11

Hepatitis E Virus Seroprevalence and Molecular epidemiology among French Swine Herds: Relationship between human and Animal Strains  
*Pavio, N.*

#### NEZ14

Hepatitis E virus (HEV) Genotype 3 Reservoirs in the Netherlands  
*Rutjes, S.*

#### NEZ10

Development Of A Real-time RT-PCR Assay For Improved Diagnostic of Borna Disease Virus (BDV)  
*Coulpier, M.*

#### NEZ04

Prevalence of Anti-Tick Borne Encephalitis (TBE) Virus Antibodies in Humans and Goats in Selected Areas in Poland – a Preliminary Study for Assessment of Risk of Foodborne Transmission of TBEBV  
*Stefanoff, P.*

#### NEZ06

Major Hantavirus Epidemic, Germany 2005 – Trends and Risk Factors  
*Stark, K.*

11.00-13.00 cont.	<p><b>Oral Presentations: Epidemiology</b>  <i>Chairs: Kumar Sivam and Wilfrid van Pelt (Pascoli)</i></p> <p><b>EPI09</b>  Molecular characterization of a collection of isolates of <i>Mycobacterium avium</i> subspecies paratuberculosis, possible contributing agent in Crohn's disease in humans  <i>Castellanos, E.</i></p>	<p><b>Oral Presentations: New and Emerging Zoonoses</b>  <i>Chairs: Malcom Banks and Francisco Bolas-Fernandesz (L'Ora di Barga)</i></p> <p><b>NEZ09</b>  <i>Dientamoeba fragilis</i> in Swine Faecal Samples: a Potential Reservoir for Humans?  <i>Venditti, G.</i></p> <p><b>NEZ02</b>  Bovine Cysticercosis in Belgian Dairy and Mixed Herds in 2001–2003: an Epidemiological Study of a Neglected but Widespread Zoonosis  <i>Boone, I.</i></p>
13.00-14.30	<p><b>Lunch</b>  (Restaurant La Veranda)</p>	<p>14.00-14.20 <b>How to use WebEx: Web Conferencing Demo</b>  <i>Communications Unit (L'Ora di Barga)</i></p>
14.30-16.00	<p><b>Poster Session</b>  Epidemiology, Molecular Epidemiology and Host–Microbe Interaction  (La Cavalla Storna)</p>	<p><b>Workpackage Leaders Meeting</b>  <i>Closed meeting – WP leaders or deputies only (Pascoli)</i></p>
16.00-16.30	<p><b>Tea and Coffee Break</b></p>	
16.30-18.15	<p><b>Panel Discussion</b>  '<b>Zoonoses – Preparing for Future, and Sustainability of Med-Vet-Net'</b>  (Pascoli)  <i>Chairperson: Prof. Diane Newell, VLA</i></p> <p><b>Panel</b>  <i>Consultant to animal health industry: Prof. Peter Silley, MB Consult</i>  <i>International advisory body: Prof. Vincenzo Caporale, OIE</i>  <i>National health institute: Dr Carmen Audera, ISCIII</i>  <i>Academia: Dr Katarina Stark, Royal Veterinary College</i>  <i>Developing World perspective: Dr Mark Eisler, University of Edinburgh</i></p> <p>Please hand in questions for the panel to the conference reception desk.</p>	

18.15-19.00	<b>Keynote Lecture 3: 'Molecular and modelling tools for the attribution of risk pathways for food-borne diseases'</b> <i>Professor Nigel French</i> <i>Professor of Food Safety and Veterinary Public Health, Massey University, New Zealand</i> <i>Introduced by by Bo Sundqvist (Pascoli)</i>
19.30-20.00	<b>Tuscan Cultural Display: 'Gli Sbandieratori'</b> (Il Ciocco Piazzetta)
20.00-22.00	<b>Traditional Tuscan Dinner</b> (Restaurant La Veranda)

## Friday 29th June

08.00-12.00	<b>Workpackage 29 Meeting</b> <i>WP29 members only</i> (Boardroom)	
09.00-09.45	<b>Keynote Lecture 4: 'Avian Flu'</b> <i>Dr Ilaria Capua</i> <i>Head of Virology Department, Istituto Zooprofilattico Sperimentale delle Venezie, Italy</i> <i>Introduced by Franco Ruggeri</i> (Pascoli)	
09.45-10.30	<b>Oral Presentations: Molecular Epidemiology</b> <i>Chairs: Kare Mølbak and Richard Thiery</i> (Pascoli)  <b>MEP01</b> Genotyping of <i>Cryptosporidium</i> Isolates from Calves in Germany <i>Brogli, A.</i>  <b>MEP05</b> An Inter-Laboratory Quality Assay of <i>Listeria monocytogenes</i> Pulsed Field Gel Electrophoresis for PulseNET Europe (PNE) Certification <i>Brisabois, A.</i>  <b>MEP03</b> Characterization of Human Brucellosis Outbreaks and Sporadic Cases by the Use of HOOF-print Variable Number Tandem Repeats <i>Valdezate, S.</i>	<b>Oral Presentations New and Emerging Zoonoses</b> <i>Chairs: Thomas Alter and Michel Pepin</i> (L'Ora di Barga)  <b>NEZ08</b> Virulotyping of New and Emerging <i>Salmonella</i> and Verocytotoxin-producing <i>Escherichia coli</i> (VTEC) Strains <i>Saunders, M.</i>  <b>NEZ05</b> Verocytotoxin-producing <i>Escherichia coli</i> O26: a major cause of hemolytic uremic syndrome in Italy <i>Scavia, G.</i>  <b>NEZ15</b> <i>Salmonella enterica</i> Serotype Typhimurium Phage Type U311: a Multidrug Resistant Clone Emerging in Italy and UK <i>Lucarelli, C.</i>
10.30-11.00	<b>Tea and Coffee Break</b>	

11.00-  
13.00

### **Oral Presentations: Risk Research**

*Chairs: Barbara Schimmer and  
Annemarie Kaesbohrer  
(Pascoli)*

#### **RR02**

Do Farms With a High Prevalence  
of Meat-juice ELISA-positive Pigs  
Represent a High Risk?  
*Hill, A.*

#### **RR03**

Using a Pedigree Method for  
Evaluating the Quality of Data:  
Application to a Belgian Quantitative  
Microbial Risk Assessment for  
*Salmonella* spp. in Pork  
*Boone, I.*

#### **RR06**

Changes in Phenotypic Patterns of  
Antimicrobial Resistance among  
*Escherichia coli* Isolated from  
Integrated Multi-site Housing and  
Worker Cohorts of Humans and Swine  
*Alali, W.*

#### **RR01**

A Comparison of European Risk  
Assessments on *Campylobacter* in  
Broiler Meat  
*Nauta, M.*

#### **RR04**

Sero-epidemiology as a Tool  
for Estimating the Incidence of  
*Campylobacter* infections  
*Simonsen, J.*

#### **RR11**

Towards a risk assessment of *Trichinella*  
*Takumi, K.*

### **Oral Presentations: General Interest**

*Chairs: Béla Nagy and Gerhard Falkenhorst  
(L'Ora di Barga)*

#### **RR08**

Attributing Food-borne Illness to Specific  
Foods in the USA  
*Angulo, F.*

#### **EPI17**

CampEC-NET – a SAFEFOODERA Project  
*Hofshagen, M.*

#### **D&C26**

The Diagnostic Potential of miniaturised  
DNA microarrays  
*Anjum, M.*

#### **HMI15**

The High Affinity Zn<sup>2+</sup> Uptake System  
ZnuABC is Required for Bacterial Zinc  
Homeostasis in Intracellular Environments  
*Pasquali, P.*

#### **D&C22**

Harmonization of MLVA using different  
equipment for fragment detection  
*Torp Dahl, M.*

#### **MEP14**

An External Quality Assurance System  
(EQAS) for Implementation of Standardized  
Molecular Typing for *Salmonella* across  
Europe  
*Best, E.*

11.00-13.00 cont.	<p><b>Oral Presentations: Risk Research</b>  <i>Chairs: Barbara Schimmer and Annemarie Kaesbohrer (Pascoli)</i></p> <p><b>RR05</b>  Qualitative assessment of human exposure to <i>Trichinella</i> spp. in Switzerland  <i>Breidenbach, E.</i></p>	<p><b>Oral Presentations: General Interest</b>  <i>Chairs: Béla Nagy and Gerhard Falkenhorst (L'Ora di Barga)</i></p> <p><b>MEP13</b>  Occurrence of <i>qnr</i> Genes in Dutch Quinolone Resistant <i>Salmonella</i> Isolates  <i>Veldman, K.</i></p>
13.00-14.30	<p><b>Lunch</b>  (Restaurant La Veranda)</p>	<p>14.00-14.20 <b>Using the members' website, the workplace area and the virtual learning environment</b>  <i>Communications Unit (L'Ora di Barga)</i></p>
14.30-16.00	<p><b>Oral Presentations: General Interest</b>  <i>Chairs: Trudy Wassenaar and Diane Newell (Pascoli)</i></p> <p><b>RR09</b>  "It Won't Happen To Me": Optimistic Bias and Acute Gastrointestinal Illness  <i>Sargeant, J.</i></p> <p><b>HMI13</b>  Campylobacter Pangenomics  <i>Friis</i></p> <p><b>MEP02</b>  Variability In Genotypic and Phenotypic Characteristics of <i>Salmonella</i> Typhimurium Dt104 Isolates during a Food-borne Outbreak  <i>Nielsen, E.</i></p> <p><b>EPI18</b>  A Prolonged Regional Outbreak of Salmonellosis by Contaminated Hard Cheese from Raw Milk in The Netherlands  <i>Schimmer, B.</i></p> <p><b>HMI14</b>  Host-Pathogen Interactions as Studied by Confocal Microscopy  <i>Cooley, W.</i></p> <p><b>D&amp;C05</b>  Development of a Strain-specific Molecular Method for Quantitating Specific <i>Campylobacter</i> Strains in Poultry Processing Plants  <i>Elvers, K.</i></p>	

16.00-16.30	<b>Tea and Coffee Break</b>		
16.30-18.00	<b>Poster Session</b> Detection and Control, New and Emerging Zoonoses, and Risk Research (La Cavalla Storna)	<b>WP3 Business Meeting</b> <i>WP3 members only</i>	<b>WP6 Business Meeting</b> <i>WP6 members only</i> (Boardroom)
18.00-18.45	<b>Keynote Lecture 5 : The impact of systematic reviews and quality criteria on publications regarding food safety and foodborne zoonoses</b> <i>Professor Jan Sargeant</i> <i>Associate Professor, Department of Clinical Epidemiology &amp; Biostatistics, McMaster University, Canada</i> <i>Introduced by André Jestin</i> <i>(Pascoli)</i>		
18.45-19.00	<b>Closing Session</b> <i>Diane Newell</i>		
20.00-22.00	<b>Dinner</b> (Restaurant La Veranda)		
21.30-23.00	<b>Social Event: Quiz Night</b> <i>Hosted by Communications Unit</i> (Terrace)		

## Saturday 30th June

08.30-10.30	<b>MRSA – Neglected and Emerging Zoonosis Special Interest Group workshop</b> (L'Ora di Barga)	<b>Host–Pathogen Interaction Special Interest Group Meeting</b> (Location: TBC)	<b>WP21 Meeting</b> <i>WP21 members only</i> (Location: TBC)	<b>WP22 Meeting</b> <i>WP22 members only</i> (Location: TBC)
10.30-11.00	<b>Tea and Coffee Break</b>			
11.00 onwards	Poster pack up Travelling back to Airport/Railway			

### Scientific Committee

*Chair:* Professor Diane Newell – VLA

Dr Alfredo Caprioli – ISS

Dr Franco Ruggeri – ISS

Dr Barbara Schimmer – RIVM

Dr Trudy Wassenaar – VLA

### Badges

To help you identify invited guests and conference organizers, we have included coloured stripes on name badges.

Gold: Keynote Speakers and Panel Members

Dark blue: Members of the Scientific Committee

Light blue: Conference Administration

### Conference Rooms

Locations of events are listed in parentheses on this programme. Please check for updates of Workpackage Business Meetings on the notice board at the registration desk.

**LUCCA '07**



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<http://www.medvetnet.org/mvnconf07>