



MedVet PATHOGENS 2018

5th Prato Conference on Animal Bacterial Pathogens

Animal, Human and Zoonotic Infections - Pathogenesis, Evolution, Control

8 - 11 October 2018, Prato, Italy



Sponsored by the Microbiology Society (UK)

Venue: Monash University Prato Centre, Palazzo Vai, Prato (Tuscany, Italy)

Keynote speaker: Pascale Cossart, Institut Pasteur, Paris

8th October 2018

Registration

1:00PM - 6:30PM Sala Caminetto

Welcome & Opening Address

2:30PM - 2:40PM Salone Grollo

Chair: Jose Vazquez-Boland

Infection Microbiology I

2:40PM - 3:55PM Salone Grollo

Chairs: Wim Meijer & Kenneth Simpson

2:40 PM **Øystein Angen**

Transmission of MRSA between animals and humans *abs# 1*

3:10 PM **Sabine Töttemeyer**

Identifying the bacterial community and host response of a natural mixed infection using metatranscriptomics *abs# 2*

3:25 PM **Martina Jelocnik**

An epizootic of *Chlamydia psittaci* equine reproductive loss in Australia: Are the native parrots and other birds to blame? *abs# 3*

3:40 PM **Rachel Clifton**

Community analysis of *Fusobacterium necrophorum* in sheep: the role of the mouth as a reservoir in footrot *abs# 4*

Coffee Break

3:55PM - 4:25PM Sala Billiardo & Main Bar

Infection Microbiology I (continued)

4:25PM - 5:10PM Salone Grollo



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Chair: Miki Bojesen

4:25 PM **Louise J Whatford**

Investigation of transmission and persistence of bacteria associated with mastitis in ewes housed over lambing using MALDI-ToF-MS *abs# 5*

4:40 PM **Zoë N Willis**

Footrot in sheep: What's n-ewe in the *Dichelobacter nodosus* community? *abs# 6*

4:55 PM **Naomi S Prosser**

Ewe lameness: prevalence and risk factors in 162 English sheep flocks in 2015 *abs# 7*

Special Lecture

5:10PM - 5:50PM Salone Grollo

Chair: Jose Vazquez-Boland

5:10 PM **Julian Parkhill**

Where do MDR nosocomial pathogens come from? *abs# 8*

Welcome Function

5:50PM - 7:30PM Terrace

9th October 2018

Registration

8:00AM - 5:00PM Sala Caminetto

Infection Microbiology II

8:45AM - 9:45AM Salone Grollo

Chairs: Peter Kuhnert & Øystein Angen

8:45 AM **Anders M Bojesen**

High prevalence of subclinical endometritis in problem mares – effect of activation and treatment on fertility *abs# 9*



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9:00 AM **Michela Corrò**

Comparative study on Coagulase Positive *Staphylococci* (CPS) and Methicillin-resistant strains (MRCPS) skin colonization in dogs and cats. *abs# 10*

9:15 AM **Oskar E Karlsson Lindsjö**

Enterococcus hirae- commensal or pathogen? *abs# 11*

9:30 AM **Kenneth Simpson**

5-Aminosalicylic acid modulates the growth and virulence of pathosymbiont *Escherichia coli* associated with IBD and colorectal cancer *abs# 12*

Coffee Break

9:45AM - 10:15AM Sala Billiardo & Main Bar

Genomics & Epidemiology

10:15AM - 12:00PM Salone Grollo

Chairs: Carmen Buchrieser & Eric Oswald

10:15 AM **Carmen Buchrieser**

The *Legionella* genus genome: Diversity and plasticity, the key to adaptation *abs# 13*

10:45 AM **Victor Gannon**

Shiga-toxin producing *Escherichia coli* (STEC) serotype, lineage and host prediction using machine learning models *abs# 14*

11:00 AM **Max L Cummins**

Genomic analysis of Australian Avian Pathogenic *Escherichia coli*. *abs# 15*

11:15 AM **Sara Frosth**

Identifying possible transmission routes of *Campylobacter* on chicken farms by NGS *abs# 16*

11:30 AM **Rikke Olsen**

Investigation of the intestinal carriage of *E. coli* clones related to the Nordic outbreak in 2014-2016 *abs# 17*

11:45 AM **Louise Ladefoged Poulsen**

Investigation of genotypic association of *E. coli* with the manifestations of salpingitis in egg laying hens *abs# 18*

Rapid-Fire Poster Talks I



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12:00PM - 12:30PM Salone Grollo

Chair: John Boyce & Alda Natale

12:00 PM **Tiziana Zingali**

Genomic analysis of multi-drug resistant commensal *Escherichia coli* from healthy Australian swine *abs# 70*

12:05 PM **Kanishka I Kamathewatta**

Evaluation of Oxford Nanopore long read sequencing to explore antimicrobial resistance risks in a veterinary teaching hospital *abs# 71*

12:10 PM **Nadine Käppeli**

Genetic diversity, virulence factor profiles and antimicrobial resistance patterns of *Escherichia coli* isolated from bovine mastitis in Switzerland *abs# 72*

12:15 PM **Nedjma LOUNES**

Antimicrobial resistance of *Brucella* isolated from seropositive cattle in the department of Tizi Ouzou, Algeria *abs# 73*

12:20PM **Question time**

Poster session 1 and Lunch

12:30PM - 2:00PM Sala Billiardo & Main Bar

'Genomic analysis of multi-drug resistant commensal *Escherichia coli* from healthy Australian swine' - **Tiziana Zingali**

'Evaluation of Oxford Nanopore long read sequencing to explore antimicrobial resistance risks in a veterinary teaching hospital' - **Kanishka I Kamathewatta**

'Genetic diversity, virulence factor profiles and antimicrobial resistance patterns of *Escherichia coli* isolated from bovine mastitis in Switzerland' - **Nadine Käppeli**

'Antimicrobial resistance of *Brucella* isolated from seropositive cattle in the department of Tizi Ouzou, Algeria' - **Nedjma Lounes**

Audrey Habets

Identification of serotypes of enteropathogenic (EPEC) *Escherichia coli* isolated from diarrheic calves *abs# 74*

Yuting Yin

Functionality of virulence associated proteins (vap) of *Rhodococcus equi* *abs# 75*



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Wim G Meijer

Delayed differentiation of vaginal and uterine microbiomes in dairy cows developing postpartum endometritis *abs# 76*

Claudia Feudi

mcr-3 gene variants identified in colistin-resistant *Aeromonas* spp. isolated from animals in Germany *abs# 77*

David Pérez-Pascual

Determinants of microbiota-mediated resistance to infection in zebrafish *abs# 78*

Martina Jelocnik

From swab to diagnosis in under an hour: novel *Chlamydia* isothermal amplification assays *abs# 79*

Anna Aspan

An European interlaboratory evaluation of PCR and ELISA methods for *Mycoplasma bovis* diagnostics *abs# 80*

Tracy L Nicholson

Comparative Genomic and Virulence Analysis of *Streptococcus suis* Isolates *abs# 81*

Cheng Cheng

The orphan response regulator VirS of the intracellular pathogen *Rhodococcus equi* interacts with multiple sensor kinases *abs# 82*

Irina Egorova

Characteristics of *B.anthraxis* strains, isolated during the Anthrax outbreaks in the territory of Russian Federation from 2014 to 2016 *abs# 83*

Ida Thøfner

Experimental chronic *E.coli* oviduct infections in egg laying hens *abs# 84*

Santiago Uranga

Comparative study of the pathogenesis of *Mycobacterium bovis* and *Mycobacterium tuberculosis* in a murine model. *abs# 85*

Marta Odyniec

The prevalence of *Yersinia enterocolitica* in fallow deer (*Dama dama*) in Poland. *abs# 86*

Naomi S Prosser

A national cohort study of the serological diversity of *Dichelobacter nodosus* in sheep in sickness and in health *abs# 87*

Louise J Whatford

An intervention study to investigate the impact of raised hygiene in the perinatal period on mastitis and health in housed ewes *abs# 88*

Maj H Christensen

Leptospirosis in Humans and Animals in Denmark *abs# 89*



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Sara Mahdizadeh

Evaluation of the efficiency of the endogenous CRISPR/Cas system of *Mycoplasma gallisepticum* for use in genome engineering *abs# 90*

Anna Rosander

Identification of *Brachyspira pilosicoli* intestinal cell line-binding proteins by phage display and deep sequencing *abs# 91*

Virulence & Pathogenesis I

2:00PM - 3:45PM Salone Grollo

Chairs: Carmen Alvarez-Dominguez & Jose Vazquez-Boland

1:45 PM Jose Penades

The Right Move *abs# 19*

2:15 PM Monika Ehling-Schulz

Staphylococcus aureus within-host adaptation during progression of chronic bovine intramammary infection *abs# 20*

2:30 PM Martine Denis

Virulence characterization of *Salmonella* Derby, *S. Typhimurium* and its monophasic variant 1,4[5], 12:i:- isolated from pigs through *in vitro* Caco-2 assay and *in vivo* *Galleria mellonella* model *abs# 21*

2:45 PM Julian I Rood

How are multiple antibiotic resistance and toxin plasmids stably maintained in *Clostridium perfringens*? *abs# 22*

3:00 PM Pietro Mastroeni

Understanding the pathogenesis and immunity of invasive bacterial diseases to design new vaccines and therapeutic measures *abs# 23*

Coffee Break

3:45PM - 4:15PM Sala Billiardo & Main Bar

Virulence & Pathogenesis II

4:15PM - 5:30PM Salone Grollo

Chairs: Roland Brosch & Jose Penades



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4:00 PM **Eric Oswald**

Outer Membrane Vesicles of highly virulent Extraintestinal pathogenic *Escherichia coli* specifically alter the autophagy flux and modulate the inflammasome response *abs# 24*

4:30 PM **Susan L Brockmeier**

Generation and evaluation of a *Haemophilus parasuis* capsule mutant *abs# 25*

4:45 PM **Svetlana Ermolaeva**

Comparative study of natural variants of *Listeria monocytogenes* invasion factor InlB: biological and physical aspects *abs# 26*

5:00 PM **Andreas Eske Johansen**

The *in vivo* metabolism of Avian Pathogenic *Escherichia coli* (APEC) during salpingitis in layers *abs# 27*

10th October 2018

Registration

8:00AM - 4:30PM Sala Caminetto

Virulence & Pathogenesis III

8:45AM - 10:15AM Salone Grollo

Chairs: Monika Ehling-Schulz & Pietro Mastroeni

8:45 AM **Roland Brosch**

Evolution and pathogenicity of tuberculosis-causing : Focus on secretion *abs# 28*

9:15 AM **Yoshihiro Shimoji**

Identification of the chromosomal region essential for serovar-specific antigen and virulence of serovar 1 and 2 strains of *Erysipelothrix rhusiopathiae*: a target for simultaneous detection and differentiation of the serovar strains by PCR *abs# 29*

9:30 AM **Carrie Shaffer**

In Vivo Structures of a Bacterial Nanomachine Revealed by Electron Cryotomography *abs# 30*

9:45 AM **Nina Pennetzdorfer**

Characterization of bile and redox-state dependent proteolysis control of the key virulence regulator ToxR in *Vibrio cholerae* *abs# 31*

10:00 AM **Jose Vazquez-Boland**

Sensing the environment-to-host transition: how *Listeria monocytogenes* does it. *abs# 32*



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Coffee Break

10:15AM - 10:45AM Sala Billiardo & Main Bar

Immunity & Vaccines

10:45AM - 12:15PM Salone Grollo

Chairs: Carlos Martin & Joachim Frey

10:45 AM **Carlos Martin**

Mechanisms of attenuation and protection of MTBVAC, a live attenuated tuberculosis vaccine moving to efficacy clinical trials *abs# 33*

11:15 AM **Carmen CAD Alvarez-Dominguez**

Vaccines for listeriosis *abs# 34*

11:30 AM **Ida Thøfner**

Effect of live attenuated *Escherichia coli* vaccination on experimentally induced salpingitis in layers *abs# 35*

11:45 AM **Anthony B Schryvers**

Engineered antigens targeting bacterial receptors for host transferrin *abs# 36*

12:00 PM **Somshukla Chaudhuri**

Engineering and evaluating novel protein vaccines against porcine respiratory bacterial pathogens *abs# 37*

Poster session 2 and Lunch

12:15PM - 1:45PM Sala Billiardo & Main Bar

'Investigating the persistence and transmission of intramammary pathogens using MALDI-ToF-MS to determine bacterial strains.' - **Kate E Bamford**

'Comparison of the generalist serovar *S. Typhimurium*, the bovine host-adapted *S. Dublin* and the avian host-specific *S. Gallinarum* infections in chicken and cattle macrophages' - **Kaisong Huang**

'Development of *Chlamydia pecorum* arthritis infection model in lambs - Md. Mominul Islam *Salmonella enterica* serotype Dublin infection of bovine caruncular epithelial cells: a model for investigating abortive infection in cattle' - **Jemma M Franklin**



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'Investigating the differential virulence of *Salmonella enterica* serovars in livestock animals using quantitative proteomics' - **Imogen Johnston-Menzies**

'Development of *Chlamydia pecorum* arthritis infection model in lambs' - **Md Mominul Islam**

Lida Omaleki

Dangerous Australians- what can PacBio sequencing tell us about human wound infection with *Lonepinella* species following koala bite? *abs# 100*

Martine Denis

Prevalence of *Campylobacter* spp. in shellfish from shellfish-harvesting areas in France. *abs# 101*

Hayley J Marshall

Multi-drug resistant bacterial isolates from the interdigital skin of the ovine hoof *abs# 102*

Panchali Kanvatirth

Splenic host cell types where *Salmonella* persists after ciprofloxacin treatment. *abs# 103*

Gabriella Marincola

Biofilm formation and functional analysis of *ica*-like genes in livestock-associated *Staphylococcus sciuri* isolates *abs# 104*

Madita Brauer

New therapeutic options for *Clostridioides difficile* infections *abs# 105*

Samuel Mr Aziegbemhin

Antibacterial Potentials of Cashew (*Anacardium Occidentale*) Leaves On Bacterial Isolates From Poultry Birds. *abs# 106*

Ahmed M Moustafa

The first draft genomes of E:2 (African) serotype of *Pasteurella multocida* associated with haemorrhagic septicaemia disease *abs# 107*

Melanie D. Balhuizen

Induction of Outer Membrane Vesicles (OMVs) using Host Defense Peptides (HDPs) *abs# 108*

Janine T Bosse

Three distinct but related tetracycline resistance plasmids encoding *tet(B)* in isolates of *Actinobacillus pleuropneumoniae* *abs# 109*

Giarlã C Silva

Ribosome rescue systems in *Actinobacillus pleuropneumoniae* and their role in stress resistance and virulence *abs# 110*

Svetlana Ermolaeva

Characteristic features of *Yersinia pseudotuberculosis* strains associated with Far East Scarlet-Like Fever *abs# 111*



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Stefan Schwarz

Plasmid-located extended-spectrum β -lactamase gene *bla*_{ROB-2} in *Mannheimia haemolytica* abs# 112

Stefan Schwarz

Novel multiresistance integrative and conjugative element ICE*Pmu2* from a German bovine *Pasteurella multocida* isolate abs# 113

Giarlã C Silva

arrc14: A Novel Hfq-associated sRNA IN *Actinobacillus pleuropneumoniae* that represses virulence in the *Galleria mellonella* infection model abs# 114

Henrik Christensen

Taxonomic update of *Pasteurellaceae* at genus and species level (2014-2018): new genera and new species abs# 115

Julian I Rood

The *Clostridium perfringens* toxin-based typing scheme has been expanded abs# 116

Rapid-Fire Poster Talks II

1:45PM - 2:15PM Salone Grollo

Chairs: Joachim Frey & Marina Harper

1:45 PM Kate E Bamford

Investigating the persistence and transmission of intramammary pathogens using MALDI-ToF-MS to determine bacterial strains. abs# 117

1:50 PM Kaisong Huang

Comparison of the generalist serovar S. Typhimurium, the bovine host-adapted S. Dublin and the avian host-specific S. Gallinarum infections in chicken and cattle macrophages abs# 118

1:55 PM Md. Mominul Islam

Development of *Chlamydia pecorum* arthritis infection model in lambs abs# 119

2:00 PM Jemma M Franklin

Salmonella enterica serotype Dublin infection of bovine caruncular epithelial cells: a model for investigating abortive infection in cattle abs# 120

2:05 PM Imogen Johnston-Menzies

Investigating the differential virulence of *Salmonella enterica* serovars in livestock animals using quantitative proteomics abs# 121

2:10PM Question Time



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Pasteurellaceae I

2:15PM - 3:30PM Salone Grollo

Chairs: Janine Bosse & Andrew Rycroft

2:15 PM **Peter Kuhnert**

Current and future methods for identifying *Pasteurellaceae* abs# 38

2:45 PM **Thomas J Inzana**

Biofilm formation by *Pasteurella multocida* is associated with capsule deficiency, and chronic and poly-microbial infections abs# 39

3:00 PM **Ahmed M Moustafa**

Biofilm formation of *Aggregatibacter aphrophilus* in bone and joint infections: role of the TAD locus. abs# 40

3:15 PM **Isabel Hennig-Pauka**

Biofilm production by *Actinobacillus pleuropneumoniae* strains isolated from tonsillar or lung tissue abs# 41

Coffee Break

3:30PM - 4:00PM Sala Billiardo & Main Bar

Pasteurellaceae I (continued)

4:00PM - 5:00PM Salone Grollo

Chairs: Janine Bosse & Andrew Rycroft

4:00 PM **Surya Paudel**

Experimental investigations on the interaction of *Avibacterium paragallinarum* and *Gallibacterium anatis* in chickens in context of vaccination abs# 42

4:15 PM **Robert L Davies**

A new perspective on the pathogenesis of bovine pneumonic pasteurellosis: *Mannheimia haemolytica* serotype A1 invades differentiated bovine bronchial epithelial cells abs# 43

4:30 PM **Samantha J Hau**

Immunoproteomic detection and *in vivo* screening of protein targets for control of Glässer's disease in pigs abs# 44



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4:45 PM **Jon Cuccui**

Characterisation and engineering potential of an *Actinobacillus pleuropneumoniae* glycosyltransferase *abs# 45*

Conference Dinner

7:00PM - 11:00PM Offsite Venue

Venue: Lo Scoglio Restaurant

Address: Via Giuseppe Verdi, 42, 59100 Prato PO, Italy

11th October 2018

Registration

8:15AM - 1:00PM Sala Caminetto

Pasteurellaceae II

8:45AM - 10:00AM Salone Grollo

Chairs: Thomas Inzana & Anthony Schryvers

8:45 AM **John D Boyce**

Unravelling the *Pasteurella multocida* small RNA regulatory network *abs# 46*

9:00 AM **Giarlã C Silva**

Identification of small RNAs in outer membrane vesicles produced by *Actinobacillus pleuropneumoniae* *abs# 47*

9:15 AM **Tracy L Nicholson**

Comparative genomic and methylome analysis of non-virulent D74 and virulent Nagasaki *Haemophilus parasuis* isolates *abs# 48*

9:30 AM **Lida Omaleki**

Using genomics for a better understanding of an old enemy - *Pasteurella multocida* *abs# 49*

9:45 AM **Marina Harper**

Using transposon-directed insertion site sequencing (TraDIS) to identify *P. multocida* genes essential for growth and pathogenesis *abs# 50*



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Coffee Break

10:00AM - 10:30AM Sala Billiardo & Main Bar

Antimicrobial Resistance & Therapy

10:30AM - 12:15PM Salone Grollo

Chairs: Stefan Schwarz & Bruno Gonzalez-Zorn

10:30 AM **Bruno Gonzalez-Zorn**

Gene Flux and Antimicrobial Resistance *abs# 51*

11:00 AM **Steven P Djordjevic**

Genome surveillance of multiple drug resistant *Escherichia coli*: A One Health Approach *abs# 52*

11:15 AM **Gabriella Marincola**

Antibiotic resistance profiling of coagulase-negative staphylococci in livestock environments reveals a reservoir for novel and uncommon resistance traits *abs# 53*

11:30 AM **Ronen Hazan**

Phage therapy: from the lab to the patient bed *abs# 54*

11:45 AM **Philippe Glasser**

Global dissemination of carbapenemase producing *Escherichia coli* *abs# 55*

Special Lecture

12:15PM - 12:55PM Salone Grollo

Chair: Jose Vazquez-Boland

12:15 PM **Pascale Cossart**

The bacterium *Listeria monocytogenes*: towards a complete picture of its physiology and pathogenesis *abs# 56*

Closing Address

12:55PM - 1:10PM Salone Grollo

Chair: Jose Vazquez-Boland



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Lunch – close of conference

1:10PM - 2:30PM Sala Billiardo & Main Bar