



MedVetPathogens 2025 Program

MONDAY 26th May

1:00 pm	Registration Opens	<i>Sala Caminetto</i>
3:30 pm	Welcome address	<i>Salone Grollo</i>
3:45 – 5:00 pm	SESSION 1	Chair: John Boyce
3:45 pm	KEYNOTE LECTURE: Jean-Marc Ghigo. Causes and consequences of biofilm formation by bacterial pathogens	Abstract 1
4:30 pm	Soojin Jeon. Polymicrobial interactions in the development of bovine metritis	Abstract 2
4:45 pm	Devin Sanders. Efficacy of antimicrobial combinations on equine dermatophytosis <i>in vitro</i>	Abstract 3
5:00-7:00 pm	WELCOME RECEPTION	<i>Prato Centre Terrace</i>

TUESDAY 27th May

9:00-10:30 am	SESSION 2	Chair: Soojin Jeon
9:00 am	KEYNOTE LECTURE: Mark Lawrence Leveraging comparative genomics to address new pathogen emergence and develop vaccine strategies in a complex aquaculture system	Abstract 4
9:45 am	Rimsha Farooq. Antibacterial activity of OMV vaccine induced IgY from egg-yolk against avian pathogenic <i>E. coli</i>	Abstract 5
10:00 am	Thomas J. Inzana. Design of a vaccine for bovine diseases due to <i>Histophilus somni</i> consisting of bacterial antigens expressed only <i>in vivo</i>	Abstract 6
10:15 am	Jose Perez-Casal. Development of an efficacious <i>Histophilus somni</i> subunit vaccine for beef cattle	Abstract 7
10:30-11:00 am	Coffee/Tea Break	<i>Main Bar & Sala Biliardo</i>
11:00–12:30 pm	SESSION 3	Chair: Adam Blanchard
11:00 am	Andra Corder. Evaluation of polymer and emulsion adjuvants for <i>Streptococcus suis</i> vaccination	Abstract 8
11:15 am	Asja Garling. OMV-based vaccines for controlling pathogenic <i>Escherichia coli</i> in livestock and poultry	Abstract 9
11:30 am	Jonathan Thompson. MALDI TOF MS with machine learning for veterinary molecular diagnostics and biomarker discover	Abstract 10
11:45 am	Hélène Lirot. Longitudinal analysis of pathogens reveals transitions in co-infection patterns associated with mastitis states in dairy cows	Abstract 11
12:00 pm	Alexandra Calle. <i>Staphylococcus aureus</i> isolated from a dairy farm environment poses a health risk for animal and human health	Abstract 12
12:15 pm	Anaïs Bompard. Tracking <i>Escherichia coli</i> , resistance genes, and virulence markers in dairy farm effluents	Abstract 13



MedVetPathogens 2025 Program

TUESDAY 27th May Continued

12:30-2:00 pm **LUNCH** Sala Biliardo & Terrace

2:00 – 3:30 pm **POSTER SESSION** **Chair: Marina Harper**
 2:00-2:30 pm Rapid Fire Poster Presentations Salone Grollo

2:30-3:30 pm Poster Viewing and Q & A Session Sala Caminetto

3:00-3:30 pm **Poster Session Cont'd & Coffee/Tea Break**

3:30 – 5:00 pm **SESSION 4** **Chair: Anders Miki Bojesen**

3:30 pm **INVITED SPEAKER: Jaclyn Pearson** Abstract 14
 Emerging multidrug resistant *Salmonella* and their cunning ability to survive in host cells

4:00 pm **John Elmerdahl Olsen.** Deciphering genomic and transcriptomic differences between *Salmonella* Gallinarum and *Salmonella* Enteritidis and the importance of differences for pathogenicity in the avian host Abstract 15

4:15 pm **Minseo Kim.** Unravelling the microbial and genetic dynamics of epizootic shell disease in American lobsters (*Homarus americanus*) Abstract 16

4:30 pm **Lex Roelofs.** Assessing the feasibility of two different ELISA systems for the diagnosis of digital dermatitis in dairy cattle Abstract 17

4:45 pm **Jose Perez-Casal.** Development of a novel vaccine to control foot rot in Canadian feedlot cattle Abstract 18

FREE EVENING

Take an evening walk around Prato and visit one of the many bars and restaurants

WEDNESDAY 28th May

9:00–10:30 am **SESSION 5** **Chair: Veronica Jarocki**

9:00 am **KEYNOTE LECTURE: Dr Marty Roop** Abstract 19
 Timing is everything – a proposal for how the global regulator MucR functions as a virulence determinant in *Brucella*

09:45 am **Thomas Smallman.** *Pasteurella multocida* strains display unique and shared mechanisms for *in vivo* survival Abstract 20

10:00 am **Sajid Nisar.** Investigation of conditionally essential genes to sulfonamide, trimethoprim, and sulfonamide/trimethoprim exposure in resistant *Escherichia coli* Abstract 21

10:15 am **Qijing Zhang.** Pathogenic mechanisms of hypervirulent *Campylobacter jejuni* in inducing sheep abortion and systemic infection Abstract 22

10:30-11:00 am **Coffee/Tea Break** Main Bar & Sala Biliardo



MedVetPathogens 2025 Program

WEDNESDAY 28th May Continued

11:00–12:15 pm	SESSION 6	Chair: Florencia Correa-Fiz
11:00 am	INVITED SPEAKER: Yaovi Mahuton Gildas Hounmanou Leveraging genomics for One Health AMR studies in LMIC contexts	Abstract 23
11:30 am	Steven Djordjevic. Colonising opportunistic pathogens: A One Health perspective using genomic approaches	Abstract 24
11:45 am	Sulaiman Aljasir. At the interface of domestic, synanthropic, and wild animals: assessing disease risks to reintroduced threatened wildlife in AIUla's conservation reserves	Abstract 25
12:00 pm	Aleksandra Stanczak. Molecular characterisation of <i>bla</i> OXA-23 genes identified during a genomic survey of <i>Escherichia coli</i> in Australian dairy cattle	Abstract 26

12:15-1:15 pm LUNCH *Sala Biliardo & Terrace*

FREE AFTERNOON TO EXPLORE THE REGION. *Have a relaxed afternoon visiting the sites of Prato OR take a train to Pistoia (15 minutes), Florence (approx. 30 minutes) or Lucca (approx. 1 hour)*
Check train timetable at: <https://www.trenitalia.com/en.html>
Reminder: be back in Prato in time for dinner at 7!

7:00 pm **CONFERENCE DINNER AT INTERLUDIO** Via Pomeria, 64, 59100 Prato PO, Italy
Evening starts with a stand-up welcome aperitif and appetisers

THURSDAY 29th May

9:00–10:15 am	SESSION 7	Chair: Tom Smallman
9:00 am	KEYNOTE LECTURE: Georgina Cox Investigating and inhibiting <i>Staphylococcus aureus</i> host adhesion	Abstract 27
9:45 am	Qian Zhou . Evidence of RTX toxins acquisition in <i>Pasteurella multocida</i> isolated from Tasmanian marsupials	Abstract 28
10:00 am	Dilhani Ekanayake. The MIB-MIP system of <i>M. gallisepticum</i> and its role in avian immunoglobulin evasion	Abstract 29

10:15-10:45 am Coffee/Tea Break *Main Bar & Sala Biliardo*

10:45–11:45 am	SESSION 8	Chair: Tom Inzana
10:45 am	Marina Harper. The type VI secretion system “caged” toxins are delivered using a novel delivery system	Abstract 30
11:00 am	Anders Miki Bojesen. A novel infection model based on intradermal inoculation of <i>Erysipelotrix rhusiopathie</i> in chickens mimics the pathogenicity observed during spontaneous disease	Abstract 31
11:15 am	Theresa Maria Wagner. Extracellular vesicles of minimalistic bacteria as mediators of immune modulation and horizontal gene transfer	Abstract 32
11:30 am	John Boyce. The <i>Acinetobacter baumannii</i> Vfr controls multiple virulence factors, including twitching and surface-associated motility	Abstract 33

11:45-12:15 pm CLOSING REMARKS_ CONFERENCE CONCLUDES

12:15 pm Lunch (on-site only) *Sala Biliardo & Terrace*