



# MedVetPathogens 2025 Program

## MONDAY 26<sup>th</sup> May

1:00 pm	Registration Opens	Sala Caminetto
3:30 pm	Welcome address	Salone Grollo
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	Soo Jin 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	Prato Centre Terrace

## TUESDAY 27<sup>th</sup> May

9:00-10:30 am	SESSION 2	Chair: Soo Jin 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	Main Bar & Sala Biliardo
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 27<sup>th</sup> 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 28<sup>th</sup> 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 28<sup>th</sup> May Continued

<b>11:00–12:15 pm</b>	<b>SESSION 6</b>	<b>Chair: Florencia Correa-Fiz</b>
11:00 am	<b>INVITED SPEAKER: Yaovi Mahuton Gildas Hounmanou</b> Leveraging genomics for One Health AMR studies in LMIC contexts	Abstract 23
11:30 am	<b>Steven Djordjevic.</b> Colonising opportunistic pathogens: A One Health perspective using genomic approaches	Abstract 24
11:45 am	<b>Sulaiman Aljasir.</b> 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	<b>Aleksandra Stanczak.</b> 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

<b>12:15-1:15 pm</b>	<b>LUNCH</b>	<i>Sala Biliardo &amp; Terrace</i>
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**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!**

<b>7:00 pm</b>	<b>CONFERENCE DINNER AT INTERLUDIO</b> Via Pomeria, 64, 59100 Prato PO, Italy <i>Evening starts with a stand-up welcome aperitif and appetisers</i>
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## THURSDAY 29<sup>th</sup> May

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

<b>10:15-10:45 am</b>	<b>Coffee/Tea Break</b>	<i>Main Bar &amp; Sala Biliardo</i>
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<b>10:45–11:45 am</b>	<b>SESSION 8</b>	<b>Chair: Tom Inzana</b>
10:45 am	<b>Marina Harper.</b> The type VI secretion system “caged” toxins are delivered using a novel delivery system	Abstract 30
11:00 am	<b>Anders Miki Bojesen.</b> 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	<b>Theresa Maria Wagner.</b> Extracellular vesicles of minimalistic bacteria as mediators of immune modulation and horizontal gene transfer	Abstract 32
11:30 am	<b>John Boyce.</b> 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**

<b>12:15 pm</b>	<b>Lunch (on-site only)</b>	<i>Sala Biliardo &amp; Terrace</i>
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