



11-14 August 2025  
Hilton Vienna Park, Austria  
[www.ivis2025.org](http://www.ivis2025.org)

# 14<sup>TH</sup> INTERNATIONAL VETERINARY IMMUNOLOGY SYMPOSIUM PROGRAM

(as on 27 June 2025)



# DAY 1 – Monday 11 August 2025

POSTERS WILL BE ON DISPLAY DURING THE FULL SYMPOSIUM IN GRAND KLIMT HALL 1 & EXHIBITORS IN THE YARD/KLIMT ENSEMBLE

VENUE	Grand Klimt Hall 2 & 3 (Main venue)	Park Suite 7 & 8 (Breakaway venue)
08:00	Registration	
Time	GLOBAL METHANE HUB Vaccine development against methanogens Symposium	
09:00	NOT IN USE	Welcome and introduction - <i>Prof. Paul Wood, Global Methane Hub</i>
09:05		Understanding the mechanism of immunity required for the development of a vaccine to reduce methane production – <i>Prof. John Hammond, Pirbright Institute</i>
09:20		Co-development of the rumen and immune system - <i>Prof. Dr Dirk Werling, Royal Vet College</i>
09:35		The challenges and progress in target selection for a methanogen vaccine - <i>Dr Neil Wedlock, Lucidome Bio/AgResearch</i>
09:50		Induction of a sustained antibody response to methanogen antigens - <i>Dr Georgia Deliyannis, Melbourne University</i>
10:05		Panel Discussion
10:30	Mid-morning Refreshments in Yard/Klimt Ensemble    Registration for the BactiVac Workshop	
	BactiVac, the Bacterial Vaccines Network Workshop Challenges in developing bacterial vaccines for veterinary infections	
11:00	NOT IN USE	Introduction and Aims of the Session - <i>Prof. Adam Cunningham (Chair), BactiVac Network</i>
11:15		Salmonella in livestock: interventions to protect animal and public health - <i>Dr Francesca Martelli, Animal and Plant Health Agency</i>
11:45		Opportunities & challenges in the development of Salmonella vaccines for farmed animals - <i>Prof. Mark Stevens, The Roslin Institute, University of Edinburgh</i>
12:15		Harnessing salmonella porins for vaccine development: A One Health strategy against salmonella infections and antimicrobial resistance - <i>Prof. Constantino López-Macías, Mexican Institute for Social Security</i>
12:45	Networking Lunch in Foyer	
13:45	NOT IN USE	Field evaluation of a prototype subunit vaccine to control Escherichia coli O157 in cattle - <i>Prof. Tom McNeilly, Moredun Research Institute</i>
14:15		Tackling bacterial livestock diseases in sub-Saharan Africa - Spotlight on Contagious bovine and caprine pleuropneumonia (CBPP and CCPP) - <i>Dr Elise Schieck, International Livestock Research Institute ILRI</i>
14:45		Open Discussion with Audience & Panel - <i>Prof. Peter Borriello (Chair), BactiVac Network</i>
15:50		Session Wrap-up by Workshop Chair
16:00		Close of Session
16:30	Welcome and Opening in Grand Klimt Hall 2 & 3 - <i>Prof. Tobias Käser, Institute of Immunology, Vetmeduni Vienna (Symposium Chairperson)</i>	
16:40	Keynote 1 – The role of veterinary immunology in enhancing food security in developing countries - <i>Prof. Cynthia Baldwin, University of Massachusetts Amherst</i>	
17:25	Close of Day 1	
18:30	Travel to Welcome Reception with Old-timer Tram ( <i>only applicable to delegates who chose the TRAM Option</i> ). To book alternative transport to/from venue, click on <a href="#">WienMobil</a> - 18:30, 18:35 - Departure Station STUBENTOR U ( <b>Departure Station: Please take notice ! No waiting opportunity for late Passengers!</b> ) - 21:30, 21:35 - Return Station NUSSDORF	
19:30	WELCOME RECEPTION AT HEURIGER SCHÜBEL-AUER	



# DAY 2 – Tuesday, 12 August 2025

POSTERS WILL BE ON DISPLAY DURING THE FULL SYMPOSIUM IN GRAND KLIMT HALL 1 & EXHIBITORS IN THE YARD/KLIMT ENSEMBLE

VENUE	Grand Klimt Hall 2 & 3 (Main venue)		Park Suite 7 & 8 (Breakaway venue)		
08:00	Registration				
08:30	Plenary 1 - <i>Mycobacterium bovis</i> and the host immune response - why are some infected cattle missed by diagnostics? - Dr Kieran Meade, University College Dublin Chair:				
09:15	Venue change				
	Session 1.1a		Session 1.1b		
	INNATE IMMUNITY <i>Chairs: Eva Wattrang &amp; Artur Summerfield</i>		WILDLIFE / EXOTICS / FISH <i>Chairs: Sabine Hammer &amp; Andrew Flies</i>		
Time	Presenter	Abstract nr. and Title	Presenter	Abstract nr. and Title	
09:20	Baillou, Abre	(157) Unravelling porcine dendritic-cell diversity: welcome tDC and DC3	Pye, Ruth	(044) Immune recognition of a transmissible cancer in Tasmanian devils with MHC-I deletion	
09:38	Mugica, Maitane	(233) The role of neutrophils in vaccination against <i>paratuberculosis</i> : evidence of activation and trained immunity	Hammel, Maurine	(224) Characterisation of the tumour microenvironment of a transmissible cancer affecting Tasmanian devils	
09:56	Mehrani, Yeganeh	(127) Characterization of canine blood innate lymphoid cells	Woziri, Abubakar	(020) <i>In silico</i> design and immunogenic potentials of a novel epitope-based DNA vaccine candidate against <i>Aeromonas hydrophila</i> in freshwater fish	
10:14	Tort-Miró, Aida	(170) Inactivated <i>Rothia nasimurium</i> promotes a persistent antiviral immune status in porcine alveolar macrophages	Mair, Kerstin	(313) Immunophenotyping of donkey immune cells using cross-reactive equine antibodies in flow cytometry	
10:30	Mid-morning Refreshments in Yard/Klimt Ensemble				
	Session 1.2a		Session 1.2b		
	INNATE IMMUNITY <i>Chairs: Lonneke Vervelde &amp; Kieran Meade</i>		TISSUE SPECIFIC IMMUNOLOGY / MICROBIOME <i>Chairs: Melissa Stas &amp; François Meurens</i>		
Time	Presenter	Abstract nr. and Title	Presenter	Abstract nr. and Title	
11:10	Racine, Elsa	(035) Decoding nosemosis in honeybees: Insights into immune gene expression and tissue damage	Graham, Simon	(167) Unravelling spatial dynamics in porcine lymph nodes following viral infection	
11:28	Klein, Rafaela	(050) Enteral immunization induces trained immunity and protection against pneumonia in newborn foals through the gut-lung axis	Facciuolo, Antonio	(255) Application of a bovine intestinal loop model to study in vivo mucosal immune responses to enteric <i>Mycobacterium</i> infection	
11:46	Yimthin, Thatcha	(100) Immune responses elicited by Janus-faced <i>Mycoplasma mycoides</i> - glycans make the difference	Arnalot, Lisa	(243) Change in faecal microbiota during lactation in dairy cows according to cytokine profile	
12:04	Hanford, Taylor	(182) Modelling environmental stress and disease resilience using avian intestinal organoids	Abou-Rjeileh, Ursula	(185) Fatty acids preserve mitochondrial function and reduce oxidative stress in bovine adipocytes	
12:22	McGill, Jodi	(303) Transcriptional and epigenetic analysis of trained innate immune responses in alveolar macrophages and circulating monocytes from BCG-treated heifer calves	Wilson, Annaleise	(275) Temporal shifts in host immunity and microbiota across beef cattle production stages	
12:40			Faber, Marc	(148) From organ to organoid – Modulation of the gastric mucosa by the cattle parasite <i>Ostertagia ostertagi</i>	
12:55	Lunch in Restaurant Lenz				



VENUE	Grand Klimt Hall 2 & 3 (Main venue)		Park Suite 7 & 8 (Breakaway venue)		
	Session 1.3a		Session 1.3b		
	WORKSHOP 1 - ANIMAL MODELS <i>Chairs: Friederike Ebner &amp; Kerstin Mair</i>		WORKSHOP 2 - VIC MHC <i>Chair: John Hammond</i>		
Time	Presenter	Abstract nr. and Title	Time	Presenter	Abstract nr. and Title
14:00	Ebner, Friederike	(285) Reducing non-human primates in non-clinical assessment: the European initiative on minipig and micropig models (NHPig)	14:00	Maccari, Giuseppe	(368) The IPD-MHC Database: from allele collection to Integrated immunology platform
14:15	Flisikowska, Tatiana	(298) When size matters: large animal models for biomedicine	14:30	Schwartz, John	(223) Unique genomic linkage between the MHC class I and the leukocyte receptor c2mplex in Yangochiropteran bats
14:30	Paudyal, Basudev	(213) Assessing antibody-based therapeutics for preventing influenza transmission in a pig model	14:45	Hammer, Sabine E.	(282) Exploring porcine models and MHC genetics in xenotransplantation
14:45	Kammerer, Robert	(107) The value of a carcinoembryonic antigen (CEA) homolog as a tumour marker in the pig model	15:30	Discussion / Committee Business	
15:00	Deosthali, Samruddhi	(116) Profiling porcine circovirus type 2 (PCV2)-specific immune responses in precision-cut lymph node (LN) slices (PCLNS) and LN-on-chip			
15:15	Wattegedera, Sean	(149) Immunological evaluation of refinement to the experimental model of ovine enzootic abortion in pregnant sheep			
15:30	Poster Session 1 in Grand Klimt Hall 1				
16:30	Close of Day 2				
17:40	Guided walking tour to the Vienna City Hall ("Wiener Rathaus") – pre-booking required Depart in groups of 4 from the Hotel Lobby at 17:40				
19:00	Gala Dinner at the Vienna City Hall ("Wiener Rathaus", Return to Hotel from 22:00 – own transport) – pre-booking required				





# DAY 3 – Wednesday, 13 August 2025

POSTERS WILL BE ON DISPLAY DURING THE FULL SYMPOSIUM IN GRAND KLIMT HALL 1 & EXHIBITORS IN THE YARD/KLIMT ENSEMBLE

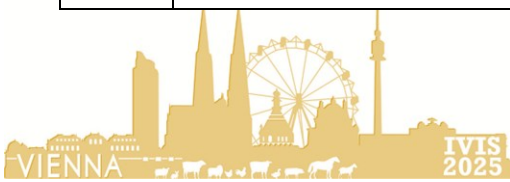
VENUE	Grand Klimt Hall 2 & 3 (Main venue)		Park Suite 7 & 8 (Breakaway venue)	
08:00	Registration			
08:30	Plenary 2 - Tissue-resident memory T cells as immunological sentinels - <i>Dr Georg Stary, Medical University of Vienna</i> <i>Chair:</i>			
09:15	Silver Sponsor Presentation – (365) New England Animal Health. How did we get here?? - <i>Dr William Golde, NEAH</i>			
09:25	Venue change			
	Session 2.1a		Session 2.1b	
	ADAPTIVE IMMUNITY <i>Chairs: Armin Saalmüller &amp; Federico Zuckermann</i>		IMMUNOGENETICS/IMMUNOGENOMICS/IMMUNOINFORMATICS <i>Chairs: Stephanie Talker &amp; Sabine Hammer</i>	
Time	Presenter	Abstract nr. and Title	Presenter	Abstract nr. and Title
09:30	Schnabel, Christiane	(089) Local Th17 cells and Ig isotypes indicate non-T2 pathogenesis in neutrophilic equine asthma	von Heyl, Theresa	(063) Single-Cell RNA-Seq reveals novel γδ T cell characteristics in TCR KO chickens
09:48	Zaki, Daniel	(022) Phenotypic and functional characterization of porcine T follicular helper and T follicular regulatory cells	Geisler, Johanna	(081) Icelandic horses as a natural model for allergy: scRNA-seq insights into <i>Culicoides</i> hypersensitivity
10:06	Nakamura, Hayato	(104) PD-1+TIM-3+ T cells are a key driver of T cell exhaustion in enzootic bovine leukosis	Wright, Quentin	(280) Extrinsic tumour necrosis factor alpha gene expression is associated with CD4+ T cell lymphopenia after African Swine Fever Virus Georgia 2007/1 infection
10:24	Okagawa, Tomohiro	(259) Development of anti-PD-L1 equine chimeric antibody for cancer immunotherapy in horses		
10:40	Mid-morning Refreshments in Yard/Klimt Ensemble			
	Session 2.2a		Session 2.2b	
	ADAPTIVE IMMUNITY <i>Chairs: Anne De Groot &amp; Elisa Crisci</i>		INTERNATIONAL VETERINARY VACCINOLOGY NETWORK SESSION <i>Chairs: Tim Connelley &amp; Madeleine Clark</i>	
Time	Presenter	Abstract nr. and Title	Presenter	Abstract nr. and Title
11:10	Démoulin, Thomas	(122) <i>Bos taurus</i> and <i>Bos indicus</i> cattle exhibit compelling different immune responses towards vector-borne viruses	Connelley, Tim	An introduction to The International Veterinary Vaccinology Network (IVVN)
11:28	Fisch, Andressa	(289) Hypoimmunogenic MHC-null <i>Theileria parva</i> -infected lymphoblasts: Towards a universal live-attenuated vaccine to control east coast fever in cattle	Bettin, Leonie	(045) A STING agonist adjuvanted CPAF protein vaccine is immunogenic in the pig model - but it fails to reduce genital <i>Chlamydia trachomatis</i> burden post-challenge
11:46	Edwards, Jane	(166) Towards an improved understanding of immune dysregulation during arterivirus infection	Ong, Chrissie	(137) Identification of tumour antigens for vaccines against the Tasmanian Devil Facial Tumour Disease
12:04	Montaner-Tarbes, Sergio	(194) Cytotoxic CD8+ T cells are associated with protection of pigs against African swine fever virus	Cotto-Lopez, Estefany	(142) Immunological evaluations of recombinant Pichinde virus-vectored PRRS vaccines in pigs
12:22	Früh, Simon	(235) Characterization of bursa-infiltrating T cells following IBDV vaccination in chickens	Hayes, Jack	(146) Developing a bivalent vaccine and DIVA test to reduce the risk of Nipah virus outbreaks in swine
12:40	Xu, Jiajia	(236) Effects of UV light on piglet vitamin D status and immune responses following tetanus vaccination	Correia, Alexandra	(217) <i>Neospora caninum</i> -specific Th1/Th17-type response induced in heifers by immunisation with a liposomal vaccine is sustained during pregnancy
13:00	Lunch in Restaurant Lenz			



VENUE	Grand Klimt Hall 2 & 3 (Main venue)		Park Suite 7 & 8 (Breakaway venue)		
	Session 2.3a		Session 2.3b		
	VACCINE DEVELOPMENT <i>Chairs: Volker Gerdts &amp; Sven Parson</i>		WORKSHOP 3 - IMMUNOLOGICAL TOOLKIT SESSION <i>Chairs: Jayne Hope &amp; Kerstin Mair</i>		
Time	Presenter	Abstract nr. and Title	Time	Presenter	Abstract nr. and Title
14:00	Zuckermann, Federico	(144) Effect of different formulations of a TLR9 agonist on the efficacy of vaccine against swine influenza A virus based on the matrix protein 2 (M2)	14:00	Dry, Inge	(102) The UK Immunological Toolbox: Development of a monoclonal antibody specific against porcine CD161
14:18	Young, Alan	(234) Development and efficacy of USDA-licensed platform vaccines against H5N1 avian influenza in multiple species	14:15	Wu, Zhiguang	(172) The Immunological Toolbox: Advancing veterinary immunology research through the generation of novel reagents.
14:36	Portugal, Raquel	(238) An effective subunit vaccine for African swine fever virus of genotype I based on vectored T cell antigens	14:30	Munir, Danish	(366) Advancing recombinant antibody technology: The Immunological Toolbox initiative to drive Veterinary Immunology research
14:54	Kabelo, Tshephang Iris	(034) Optimisation of virus-like-particle based vaccines for African strains of foot-and-mouth disease virus	14:45	Golde, William	(367) Reagents from the veterinary immunology research community for veterinary immunology research
			15:00	Wai, Hsu	(132) Activation-induced markers to study porcine immune responses to African swine fever virus
15:12	Hay, Abigail	(080) A cross-reactive neutralising epitope of foot-and-mouth disease virus (FMDV)	15:15	Keilhau, Aline	(145) Quantification of equine FcyR and FcαR activation by a novel reporter cell assay
15:30			15:30	Snoeck, Arnaud	(299) An atlas of canine whole blood cells through high-dimensional spectral flow cytometry and single cell transcriptomics
15:45	Poster Session 2				
16:45	Close of Day 3				



IUIS JC ROUNDTABLE DISCUSSION	
Grand Klimt Hall 2 & 3	
Challenges and opportunities for junior and early career researchers in the face of global funding cuts	
<i>Chair: Abubakar Woziri</i>	
17:00	Welcome and Introduction - <i>Dr Abubakar Woziri</i>
17:05	(363) Handling transitions - keeping up productivity when faced with challenges and resource-poor settings. Challenges for young African scientists - <i>Dr Mustapha Oumouna</i>
17:45	(364) Charting your path: Navigating a successful career beyond academia and post-doc - <i>Dr Quentin Wright</i>
18:25	Discussion   Questions & Answers
19:00	Close of JIC Roundtable Discussion



# Day 4 – Thursday, 14 August 2025

POSTERS WILL BE ON DISPLAY DURING THE FULL SYMPOSIUM IN GRAND KLIMT HALL 1 & EXHIBITORS IN THE YARD/KLIMT ENSEMBLE

VENUE	Grand Klimt Hall 2 & 3 (Main venue)			Park Suite 7 & 8 (Breakaway venue)	
08:00	Registration				
08:00	Plenary 3 - To be confirmed - <i>Dr Volker Gerdts, Vaccine and Infectious Disease Organization (VIDO)</i> <i>Chair:</i>				
08:45	Plenary 4 - Beyond vaccines: targeting the dark side for sustainable PRRSV control - <i>Prof. Dr Sanipa Suradhat, Chulalongkorn University</i>				
09:30	Venue change				
	Session 3.1a			Session 3.1b	
	VACCINE DEVELOPMENT <i>Chairs: Simon Graham &amp; Bert Devriendt</i>			INFECTIOUS DISEASES <i>Chairs: Sanipa Suradhat &amp; Dirk Werling</i>	
Time	Presenter	Abstract nr. and Title	Presenter	Abstract nr. and Title	
09:35	De Groot, Anne	(121) T cell epitope content comparison (EpiCC) correlates with vaccine protection against heterologous PRRS Type 2 virus challenge strains	Crisci, Elisa	(110) Challenges and lessons learned from a field trial on the understanding of the porcine respiratory disease complex	
09:53	Ubachukwu, Chidiebere	(109) Expression of a peptide-based PD-1 and CTLA-4 antagonist augments immunity conferred by a live attenuated PRRSV vaccine	Dorhoi, Anca	(292) Magnetic bioprinted granuloma: a three-dimensional model for cattle tuberculosis	
10:11	Miller, Laura	(111) Systems vaccinology for enhanced swine health: targeting PRRSV with prototype interferon-augmented vaccines	Royle, Caroline	(220) Longitudinal immune profiling of experimentally LSDV infected cattle	
10:29	Sun, Chaoying	(160) GMCSF-enhanced PRRSV titration in Marc145 cells and immunogenic potential of irradiated PRRSV <i>in vitro</i>	Facciuolo, Antonio	(254) Host responses to H5N1 influenza virus in dairy cows	
10:45	Mid-morning Refreshments in Yard/Klimt Ensemble				
	Session 3.2a			Session 3.2b	
	VACCINE DEVELOPMENT <i>Chairs: Leonie Bettin &amp; Romi Pena Subira</i>			INFECTIOUS DISEASES <i>Chairs: Anca Dorhoi &amp; Nicolas Bertho</i>	
Time	Presenter	Abstract nr. and Title	Presenter	Abstract nr. and Title	
11:15	Flies, Andrew	(219) Developing a Tasmanian devil facial tumour disease vaccine and distribution system	García-Nicolás, Obdulio	(191) Deciphering the immune response during WSLV infection in lambs using systems immunology-based BTM analysis	
11:33	Latre de Late, Perle	(048) Inactivated whole cell antigen vaccine confers protection against heterologous <i>Rickettsia rickettsii</i> strains in the canine host	Bertho, Nicolas	(115) Comparative impact of porcine reproductive and respiratory virus and swine influenza A virus infections on respiratory lymph nodes B cells and macrophages	
11:51	Corripio-Miyar, Yolanda	(069) Identification of novel membrane protein antigens for the development of a recombinant subunit Q fever vaccine for ruminants	Franzoni, Giulia	(183) Dynamics of leukocyte populations, immunoregulatory cytokines and biochemical parameters in wild boar and domestic pigs infected with African swine fever virus	
12:09			Briggs, Emily	(135) Development of monoclonal antibodies directed against the spike protein of porcine respiratory coronavirus	
12:27			Devriendt, Bert	(267) The heat-labile enterotoxin produced by enterotoxigenic <i>E. coli</i> impairs the effector functions or porcine innate immune cells	
12:45	Lunch in Restaurant Lenz				



VENUE	Grand Klimt Hall 2 & 3 (Main venue)	Park Suite 7 & 8 (Breakaway venue)
13:45	Keynote 2 - Cell cultures as an alternative to animal testing and basic and translational research - Prof. Doris Wilflingseder, University of Veterinary Medicine Vienna Chair:	
14:30	Distinguished Veterinary Immunologist Award & Presentation (Sponsored by Zoetis) - Prof. Gary Entrican, The Roslin Institute at The University of Edinburgh Chairs: Tobias Käser	
15:25	Closing session and hand-over to IVIS 2028	
16:00	DGfI Young Immunologist Meeting	
18:00	Close of Symposium	



VIA MEETING 2025   DGfI Young Immunologists Grand Klimt Hall 2 & 3 Chair: Christiane Schnabel & Dr Benjamin Schusser		
	Presenter	Abstract nr. and Title
16:00	Schnabel, Christiane	Welcome and Introduction
16:10	von La Roche, Dominik	(108) Conserved and divergent features of chicken plasma cells
16:25	Bagheri, Sina	(161) Pathogenic and commensal <i>E. coli</i> elicit comparable IFN- $\gamma$ responses <i>ex vivo</i> in chicken mononuclear cells
16:40	Herel, Simone	(308) 20-marker flow cytometry in a veterinary species – yes, we can!
16:55	Höfler, Philipp	(264) Impaired porcine roundworm growth by fermentable fibre supplementation is accompanied by minor local microbiota shifts, higher systemic secondary bile acids and butyrate
17:10	Seidel, Anne-Marie	(266) Porcine non-conventional B-1-like cells are a potent source of <i>Streptococcus suis</i> -binding IgM
17:25	Jentsch, Maria-Christin	(123) Immunoglobulin M-degrading enzyme of <i>Streptococcus suis</i> (Ide <sub>ssuis</sub> ) – What is the impact on the B cell signalling cascade?
17:40	Laubschat, Alexandra	(099) Current serological insights into <i>Ascaris suum</i> infections in German fattening pigs: Evaluation of meat juice ELISA approaches
17:55	Close of Meeting	

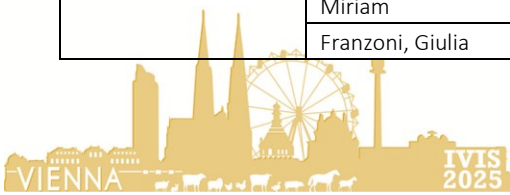




# Poster Session 1 – Tuesday, 12 August 2025, 15:30

Grand Klimt Hall 1

Theme	Presenter	Abstract nr. and Title
Vaccine development against methanogens	Khanum, Sofia	(179) Early life vaccination strategies to reduce methane emissions in farmed ruminants
BactiVac, the Bacterial Vaccines	Pillaye, Jamie	(204) BactiVac, the Bacterial Vaccines Network
Innate Immunity	Yoo, Han Sang	(038) Anti-viral and immunostimulatory effects of herbal extracts of <i>Boswellia serrata</i> , <i>Commiphora myrrha</i> , <i>Scutellaria baicalensis</i> , <i>Gardenia jasminoides</i> , <i>Nypa fruticans</i> and Propolis
	Klein, Rafaela	(039) C1q and C3b complement components impact serum concentration
	Al-Maamari, Wafa	(043) <i>In-silico</i> identification and <i>in-vitro</i> characterization of novel cathelicidins peptides from <i>Camelus Dromedarius</i>
	Blay Benach, Miriam	(054) Phagocytic capacity of caprine alveolar macrophages is associated with iNOS expression and a proinflammatory state
	Qin, Aijian	(090) The mechanisms investigation of chicken Infectious Anaemia Virus inducing immunosuppression
	Netherton, Christopher	(096) <i>In vivo</i> dysregulation of innate and adaptive immune responses after infection with African swine fever virus isolate Georgia 2007/1
	Žak-Bochenek, Agnieszka	(097) Investigation of 'suicidal' and 'vital' NETosis in equine peripheral blood neutrophils via imaging flow cytometry
	Nedumpun, Teerawut	(103) Efferocytosis in porcine macrophages: establishment of an in vitro assay and its role in innate immune modulation
	Fernandez, Mégane	(118) Analyses of <i>Leptospira</i> recognition by TLR and CLR receptors across host species
	Arteche-Villasol, Noive	(131) Modulation of monocyte-derived macrophage immune response following paratuberculosis vaccination in goats
	Waddell, Lindsey	(155) Investigating the divergence of bone marrow-derived macrophage and dendritic cell development through the utilisation of species-specific growth factors and novel immunological reagents
	Báez-Magaña, Marisol	(186) Induction of trained immunity by bovine respiratory disease vaccine in cattle
	Sacchini, Flavio	(189) Age-related cytokines and chemokines dynamics and immune stimulation responses in calves from birth to weaning: A preliminary study
	Grimaldi, Emma	(192) Bovine Dectin-1 as a potential receptor for mycobacterial glucans
	De Matteis, Giovanna	(206) EUPAHW-SOA20. Dynamic changes in monocyte subsets in calves from birth to weaning: A preliminary study
	De Matteis, Giovanna	(209) EUPAHW-SOA20. Dynamic changes in activity and phagocytic capacity in bovine calves from birth to weaning: A preliminary study
	De Matteis, Giovanna	(210) EUPAHW-SOA20. Age-related oxidative stress dynamics and immune stimulation responses in calves from birth to weaning: A preliminary study
	Lemons, Margaret	(215) Age-related differences in <i>ex vivo</i> antigen-induced equine neutrophil myeloperoxidase release
	Razzuoli, Elisabetta	(221) Validation of new antibodies for equine immune cell phenotyping
	Ezcurra, Enrique	(226) Dissecting early innate immune responses to African swine fever virus in relation to lethality or immune protection
	Rodriguez, Natalia	(239) The innate immune response to a model of equine haemorrhagic shock
	Razzuoli, Elisabetta	(241) Proteomic characterization of a sub-population of Equine monocytes
	Kaushik, Radhey Shyam	(242) Development and characterization of bison respiratory epithelial and non-epithelial cell cultures for studying the innate immunity and disease pathogenesis
	Chan, Qixia	(247) The effects of tumour-associated neutrophils (TANs) and inflammation on colon polyposis
	Zendejas-Ramírez, Miriam	(257) Evaluation of inducers of the trained immune response in bovine peripheral blood mononuclear cells
	Franzoni, Giulia	(262) Targeting toll-like Receptor 2: polarization of equine macrophages by synthetic diacylated lipopeptides polarize



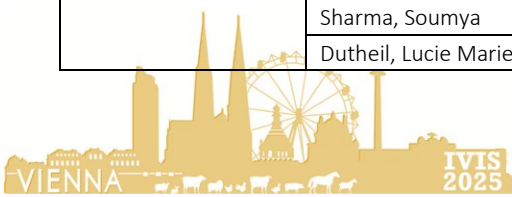
Theme	Presenter	Abstract nr. and Title
Innate Immunity	Elguezabal, Natalia	(265) The role of neutrophils in paratuberculosis: a focus on efferocytosis
	Byrne, Kristen	(300) Transcriptome and chromatin accessibility analysis in BCG induced trained immunity
	McGill, Jodi	(303) Transcriptional and epigenetic analysis of trained innate immune responses in alveolar macrophages and circulating monocytes from BCG-treated heifer calves
	Louvandini, Helder	(324) Maternal-offspring effects of zinc oxide nanoparticle supplementation in ewe on LambCellular immune responses
	Chkhaydem, Elaa	(331) Flagellin treatment decreases swine influenza virus replication in pig airway epithelial cells
	Riva, Federica	(340) Study of the effect of Goji Berry Supplementation on Immune-Related and Antioxidant Gene Expression in the Male Rabbit Reproductive Tract.
	Mitrovic, Jana	(358) Immune profiling of immunomodulators for adjuvant and vaccine development
Wildlife / Exotics / Fish	Demssie, Samuel	(075) Concurrent rabies and canine distemper outbreaks and infection in endangered Ethiopian wolves
	Matthews, Megan Ceris	(105) Unearthing DNA evidence of environmental <i>Mycobacterium bovis</i> contamination associated with endemically infected wildlife populations in the Kruger National Park (KNP)
	Seguel, Mauricio	(252) Milk is my remedy: Milk proteins increase survival to hookworm infection in a marine mammal
Tissue Specific Immunology / Microbiome	Hiromi Okino, Cintia	(014) Sheep breed-specific local immune responses to parasitic stages of <i>Haemonchus contortus</i>
	Ikehata, Mari	(077) Enhancement of vaccine-induced T-cell responses by probiotics in calves
	Mugica, Maitane	(083) Bovine precision cut intestinal slices as a model to assess early events between intestinal tissue and <i>Mycobacterium avium</i> subsp. paratuberculosis.
	Kammerer, Robert	(114) How to talk to the mother's immune system? Lessons from the foal
	Myers, Madison	(128) Endotoxemia modulates plasma endocannabinoid and ethanolamide dynamics in dairy cows
	Rodriguez, Natalia	(240) Intestinal Specific Proteins for Immunodiagnostic Exploration in the Horse
	Hohensee, Luise	(273) Mechanical vs. enzymatic dissociation of swine tonsillar tissue affects different immune cell compartments
	Hohensee, Luise	(274) Mitigating risks of motherless rearing by exploring targeted exposure to maternal microbiota
	Tshilwane, Selaelo	(291) Preliminary insights into the host serum metabolome of goats infected with <i>Haemonchus contortus</i> using an untargeted metabolomics approach
	Siwińska, Natalia	(302) Secretory immunoglobulin A as a potential marker of equine gastric ulcer syndrome – pilot study
	Chai, Jieun	(337) Nicotinamide mononucleotide enhances antiviral immunity and restores gut dysbiosis in Influenza A virus-infected mice
	Park, Sangyouel	(330) EGCG protects UVB-mediated mouse skin damage through a class III histone deacetylase, sirt1 activation
Animal Models	Oser, Larissa	(271) Optimizing cell isolation protocols in minipigs for immunological studies
	Oser, Larissa	(277) Impact of storage conditions and red blood cell lysis methods on blood sample integrity in minipigs
	Oser, Larissa	(307) Effects of different isolation protocols on yield and viability of splenocytes in minipigs
	Corbett, David	(286) Application of a ferret vaccination model to evaluate operational and scientific aspects of wildlife intervention strategies for bovine TB control
	Ciarlini, Carola Ginevra	(297) Optimised sterilisation and sampling protocols for generating germ-free piglets using a modular isolator system
	Martins de Campos, Emanuelle	(361) Specific antibody production in eggs from hyperimmunized laying hens for immunotherapy targeting <i>Haemonchus contortus</i> control in sheep
VIC MHC	Meurens, François	(177) Peer community in animal science: A free open science publication model
	Alkhamees, Abdullah	(248) Comparative analysis of equine MHC haplotypes using polymorphic microsatellites in Straight Egyptian Arabian horses and Shetland ponies.
Adaptive Immunity	Capozzo, Alejandra	(030) Field evidence of fasciola hepatica-mediated modulation of antibody responses to Foot-and-Mouth disease vaccination in buffaloes
	Reasoner, Clara	(046) Characterization of cytotoxic T cells in Jamaican fruit bats during sarbecovirus infection
	Kesler, Kathryn	(049) Harnessing zinc to modulate T helper cell polarization in dairy calves
	Martins de Campos, Emanuelle	(055) Humoral immune response in sheep of different breeds and $\beta$ -globin haplotypes infected with <i>Haemonchus contortus</i>
	Keen, KellyGrace	(059) Effect of dietary vitamin D3 on PRRSV disease severity and immune response in nursery pigs

Theme	Presenter	Abstract nr. and Title
Adaptive Immunity	Fanning, Liam	(117) Whole ecosystem seeding via a polyclonal biome reactive IgY from egg yolk of the chicken
	Monteiro, Marta	(124) Canine monocyte-derived cells: insights on molecular signature and morphology following different cytokine protocols
	Sakref, Candice	(140) Evaluation of innovative emulsion and polymer adjuvants for inactivated H5N8 HPAI virus vaccine
	Wattrang, Eva	(163) <i>Eimeria tenella</i> specific <i>in vitro</i> recall responses – comparison of T-cell blast transformation and CD25 expression with IFN- $\gamma$ producing leukocytes as read-outs
	Cayol, Tiphaine	(174) Porcine monoclonal antibodies against H3, H5, and H7 Influenza: bridging the gap in vaccine and therapeutic strategies
	Techakriengkrai, Navapon	(188) Identification of porcine reproductive and respiratory syndrome virus specific regulatory T lymphocyte peptides using peptide microarrays and swine leukocyte class II heterodimer
	De Matteis, Giovanna	(208) EUPAHW-SOA20. Immune cell dynamics in newborn calves: Variation of T, B lymphocytes and their subsets from birth to weaning. A preliminary study
	Crisci, Elisa	(216) Comparative analysis of immunization routes in a pig model of maternal-neonatal influenza immunity
	Schwartz, John	(225) Antibody diversification via somatic mutation and gene conversion in the warthog
	Tsoleridis, Theocharis	(229) Characterising the temporal and spatial dynamics of B-cell evolution and antibody repertoires in neonatal calves
	Sacchini, Flavio	(261) Long-Term immune memory and cytokine profiling in buffaloes vaccinated with <i>Brucella abortus</i> RB51: implications for adaptive immunity and booster strategies
	Caroprese, Mariangela	(268) Extracellular vesicles mediate immune cell activation under heat stress and LPS challenge in sheep model
	Kjærup, Rikke	(272) Immunophenotyping and <i>ex vivo</i> stimulation of blood leukocytes from piglets fed a yeast product
	Petrova, Ekaterina	(294) Deciphering B-Cell responses to African Swine Fever Virus using bulk BCR sequencing
	van Dongen, Katinka	(310) CD20 as new marker to define porcine B-cell subsets
	Mair, Kerstin	(312) PD-1 as marker for porcine follicular T-helper cells
	Mair, Kerstin	(314) Can porcine T-helper cells also exhibit cytolytic phenotype and function?
	van der Heijden, Elise	(315) Elucidating the constituents of protective CD8+ T-cell responses against <i>Theileria parva</i>

## Poster Session 2 – Wednesday, 13 August 2025, 15:45

Grand Klimt Hall 1

Theme	Presenter	Abstract nr. and Title
Immunogenetics/ Immunogenomics/ Immunoinformatics	Hiroimi Okino, Cintia	(041) CD4 polymorphisms in Brangus breed and association to infection with <i>Babesia bovis</i> in an endemic instability region of Brazil
	Meeks, Carrie	(047) Transcriptomic characterization of polarized porcine <i>in vitro</i> monocyte-derived macrophages using single-cell RNA-sequencing
	Okagawa, Tomohiro	(072) Novel mechanism of leukemogenesis in enzootic bovine leukosis proposed by comprehensive analysis of provirus integration sites
	Lemberger, Emma Louisa	(082) Targeting <i>XIST</i> in swine to study the genetic basis of sex differences in development and immunity
	Vervelde, Lonneke	(084) Cellular landscape of avian intestinal organoids revealed by single cell transcriptomics
	Sabuj, Abdullah Al Momen	(092) Identifying the immunocompetence traits associated with strong humoral vaccine response to <i>Mycoplasma hyopneumoniae</i> in pigs
	Yoo, Han Sang	(143) Host metabolic remodelling in response to nontuberculous mycobacteria infection
	Barone, Lucas	(156) NFDI4Immuno: Building a FAIR Infrastructure for immunological data sharing
	Pena, Romi	(184) Gene pathways regulating the host response to the porcine respiratory disease complex
	Sharma, Soumya	(201) Transcriptomic profiling of bovine NK cells using single-cell RNA sequencing
	Dutheil, Lucie Marie	(237) The ITGB7 p.G375S substitution affects lymphocyte trafficking, overall intestinal immunity and life expectancy in Holstein dairy cattle



Theme	Presenter	Abstract nr. and Title
Immunogenetics/ Immunogenomics/ Immunoinformatics	Darimont, Célia	(283) Investigating vaccine response heterogeneity in Belgian Blue calves through Systems Immunology
	Tshilwane, Selaelo	(284) CD4+ T cell and B cell epitopes of <i>Haemonchus contortus</i> proteins predicted <i>in silico</i> are partially antigenic <i>in vitro</i>
	Thom, Michelle	(288) Removing a highly immunogenic region of the FMDV viral capsid does not broaden humoral immune responses
	Gillet, Laurent	(311) A systems immunology approach reveals distinct roles of genetic and non-genetic factors in shaping variation of immune responses in cattle
	Fisch, Andressa	(325) Monoallelic bovine cell lines as a platform to expand the coverage of BoLA-DR ligand prediction tool
Vaccine Development	Costa, Monique	(011) Recombinant non-native fusion protein for active Immunization against Nerve Growth Factor and Substance P to treat chronic inflammatory pain in dogs
	Fantoni, Giulia	(012) Porcine T cell-associated markers triggered <i>ex vivo</i> predict vaccine-mediated immune protection against influenza
	Huang, Jiandong	(017) Development and evaluation of a novel senolytic peptide vaccine for alleviating aging and age-related pathologies in veterinary applications
	Nefefe, Tshifhiwa	(025) Screening for immune biomarkers associated with infection or protection against <i>Ehrlichia ruminantium</i> by RNA-sequencing analysis.
	Suresh, Raksha	(033) Assessing the protective efficacy of mannose conjugated chitosan nanoparticle-based Salmonella subunit vaccine in adult layer chickens
	Walczak, Mateusz	(040) Inactivated avian reovirus strains ARV1 and ARV4 provide broad protection against multiple avian reovirus strains
	Inoue, Maho	(068) Evaluation of a DNA vaccine encoding the E2 glycoprotein of bovine viral diarrhea virus fused to CD40 ligand in mouse model
	Horio, Fumiya	(088) Characterization of a lipocalin-like and defensin-like molecule from poultry red mites as potential vaccine antigens
	Jaramillo-Ortiz, Jose Manuel	(093) Oral <i>Saccharomyces cerevisiae</i> -based vaccination against <i>Eimeria tenella</i> and <i>Eimeria acervulina</i> infections in commercial broilers
	Kang, Seok-Jin	(106) Porcine alveolar macrophage for enhanced PRRSV productivity: immortalization, cellular receptor expression and suspension culture
	Gupta, Sandeep	(129) Genomic architecture of New Zealand <i>Mycoplasma ovipneumoniae</i> isolates provides potential antigenic targets for development of a vaccine against pneumonia in sheep
	Manoharan, Shathviga	(130) Comparison of immunogenicity and protective efficacy of aerosol and intramuscular immunisation with viral vectored vaccines encoding M1, NA2 and M1-NA2 in pigs
	Wongborphid, Sanis	(154) Evaluating novel adenoviral based vaccine platform for protection against porcine respiratory coronavirus infection
	Holder, Angela	(158) Targeted mutagenesis of <i>Mycoplasma hyopneumoniae</i> using CRISPR-Cas9 base editing as a method to generate attenuated strains with vaccine potential
	Aguiar Martins, Kelsilandia	(173) Establishment of methods for the genetic manipulation of <i>Theileria parva</i> parasites: a comparative analysis
	Marsile-Medun, Soledad	(181) Flow cytometric assessment of immune responses to Nipah virus vaccine candidates in pigs and ferrets
	Crisci, Elisa	(196) PRRSV-2 immune biobank for vaccine efficacy prediction
	Hay, Abigail	(202) High-throughput characterisation of FMDV-specific antibodies and their epitopes by surface plasmon resonance.
	Vreman, Sandra	(222) Early immune responses in neonatal pigs vaccinated with squalene-TLR agonist adjuvanted vaccine
	Hill, Holly	(227) From antigen discovery to immune activation: targeting IFN- $\gamma$ responses against <i>Chlamydia abortus</i>
	Chen, Yu-Chieh	(228) PCV2/CSFV bivalent subunit vaccine in a single dose effectively enhances cellular immunity in piglets against viral infection
	Lacasta, Anna	(232) Novel antigen identification in the <i>Theileria parva</i> genome for the improvement of East Coast fever subunit vaccines
	Russell, Grace	(253) <i>In-silico</i> assessment of coxsackievirus and adenovirus receptor binding conservation across the vertebrate subphylum.
	Kerr, Edward	(256) Sheep flystrike: Striking back with Novel Antigens and Adjuvanted Vaccines
	Hwang, Seong Yun	(263) Assessment of ASFV K145R gene as a reliable serological marker for ASFV DIVA vaccine development
	Devriendt, Bert	(270) Cell-specific targeting of mRNA-LNPs functionalized with single domain antibodies as a novel oral vaccine strategy
	Dalgaard, Tina	(276) Glycan based adjuvants in combination with TLR3 ligands may improve T cell responses for chicken IBV subunit vaccines
	Borysova, Tamara	(278) Evaluation of a novel gamma-irradiated <i>Chlamydia suis</i> vaccine in swine

Theme	Presenter	Abstract nr. and Title
Vaccine Development	Kinney Ferreira de Miranda Santos, Isabel	(279) A manufacturable multicomponent vaccine that reduces tick loads on bovines and <i>Anaplasma sp</i> in tick guts and renders engorged female ticks susceptible to a soil entomopathogen.
	Kiss, István	(287) Preliminary comparison of the efficacy of a swine influenza vaccine candidate in different challenge routes
	Husson, Nolwen	(290) Dose-dependency of immune responses and protection for a live attenuated vaccine candidate against African swine fever virus
	Chineka, Nicole	(320) Development of topologically specific poxvirus-vectored foot and mouth disease virus vaccines
	Wilson, Heather	(323) Nanoparticles that encapsulate antigens and adjuvants can be used to make semen-friendly intrauterine vaccine formulations for pigs.
	Yan, Shi	(327) Development of a Novel Glycoengineered Recombinant Vaccine Against the Barber's Pole Worm, <i>Haemonchus contortus</i>
	Park, Sangyouel	(329) Salmonella Typhi ghost vaccine elicits macrophage activation via TLR-4/autophagy
	Pedreira, Miriam	(332) A single immunization with the hyper-attenuated 40Fp8 strain is safe and protects pregnant ewes from a virulent Rift Valley fever virus challenge
	Riva, Federica	(335) Immunogenicity of an inactivated oral compound against post-weaning diarrhoea caused by enterotoxigenic <i>Escherichia coli</i> in piglets.
	Lee, Jun-Yeong	(341) Electroporation of naked mRNA induces complete protection against influenza without the need for lipid nanoparticles
	Boakye, Oliver	(350) Structural and functional studies of African Horse Sickness Virus to engineer a protein-based vaccine prototype
Immunological Toolkit	Byrne, Kristen	(281) Commercially available monoclonal antibodies cross-reactive to agriculture and wildlife species
	Kangethe, Richard Thiga	(293) Advancing livestock vaccine development through irradiation at the FAO/IAEA Seibersdorf Laboratories
Infectious Diseases	Vats, Ashutosh	(071) Pathogenicity and immune control of the Eurasian avian-like H1N1 and Influenza D virus infections in pigs
	Vervelde, Lonneke	(095) Intestinal translocation of <i>Enterococcus cecorum</i> in the first week of life after experimental infection in SPF broilers
	Maria Seles Dorneles, Elaine	(101) Identification of peptides from the protein malate dehydrogenase as candidate for DIVA diagnosis of bovine brucellosis
	De Matteis, Giovanna	(112) Gene expression profiles in healthy and <i>mycobacterium bovis</i> infected cattle and buffalo reveal distinct immunological pathways
	Morán de Bustos, Sara	(134) Comparative evaluation of the peripheral immune response in sheep experimentally infected subcutaneously or intranasally with Rift Valley fever virus
	Islam, Md Zohorul	(136) Circulatory microRNA signatures as early biomarkers for detecting Bovine Respiratory Disease
	Cuenca Lara, Patricia	(165) Immunogenicity of tuberculosis respiratory mucosal vaccine candidates in the goat model
	Luciani, Mirella	(193) Proteomic profiling of Brucellin: identifying key immunoreactive proteins for enhanced brucellosis diagnosis
	Brito, Francisco	(197) African Swine Fever – A single-cell level characterization of the dynamics of infected spleen macrophage populations
	Miller, Laura	(199) Porcine air-liquid interface organoids: a comparative platform to dissect lineage-specific influenza A virus infection and early host response in a key animal reservoir
	Awad, Wageha	(200) Differences in dietary fibre content influence <i>Campylobacter jejuni</i> colonization and trigger local immune responses in the intestine of chickens
	Berghaus, Londa	(211) Plasma metabolic profiles in foals naturally exposed to <i>Rhodococcus equi</i> on a farm endemic for disease
	Hart, Kelsey	(214) Plasma C-reactive protein and interleukin-6 concentrations in foals during health and respiratory disease
	West, Halie	(249) Increased expression of the purinergic receptor P2Y6 and pro-inflammatory chemokines in the bovine lung following experimental BRSV infection
	Kiku, Yoshio	(258) Postbiotic effects of heat-killed lactobacillus plantarum I-137 on periparturient immunity and milk quality in dairy cows
	Maria Seles Dorneles, Elaine	(306) Assessment of different indirect ELISAs for bovine brucellosis diagnosis: development, validation and performance comparison
	Repgen, Nikolaus	(309) <i>In vivo</i> evaluation of a newly developed gnotobiotic piglet model for phage therapy against necrotizing enterocolitis (NEC)
	Oh, Eun Young	(336) Glutamine deficiency exacerbates disease severity in Influenza A virus infected mice



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