

Programme (as on 07 November 2023)

Thursday 16 November

Venue	Nari
09h00	Full day STAR-IDAZ MEETING – closed event
Venue	Safari Lodge - Mondzo Meeting Room







Day 1 - Friday 17 November

VENUE	VENUE 1 – NDLOPFU	VENUE 2- INGWE/MHELEMBE		VENUE 3- NDAU/NARI
08h00		Registration for Workshop 1 opens	08h00	
08h30		Workshop 1	08h30	
09h00		Pushing boundaries in veterinary immunology-	09h00	
09h30		A new era of NGS, with single cell sequencing	09h30	Setup of Venue
10h00		and spatial transcriptomics	10h00	Setup of Venue
		(10X Bioinformatics)	101100	
10h30	Setup of Venue	Refreshment Break (Workshop 1)	10h30	
11h00	Setup of Venue		11h00	
11h30		Workshop 1 Continues	11h30	Registration for Workshop 2 opens
12h00			12h00	
12h30			12h30	Novel approaches to the development of veterinary vaccines to
		Lunch (Workshop 1)		control bacterial infections
				(Gary Entrican)
13h00				12h30: Introduction and Aims
14h00	Registration for IVIS 2023 Opens & Poster Setup Commences	Not in use	42150	 12h40: Importance of designing the vaccine TPP for translational research (Paul Wood, Monash University, Australia) 12h50: Outer membrane vesicles (OMVs) for bacterial vaccinology (Adam Cunningham, BactiVac, UK) 13h00: Bacterial glycoconjugate vaccines (delivered by the panel) (Brendan Wren LSHTM, UK) (pre-recorded) 13h10: Viral vectors for veterinary vaccinology (Michael Jarvis, The Vaccine Group UK) (pre-recorded) 13h20: mRNA platforms for veterinary vaccinology (Helba Bredell, Afrigen, SA) 13h30: STAR-IDAZ vaccine roadmaps (Gary Entrican, University of Edinburgh, UK) 13h40: DISCONTOOLS bacterial vaccines gaps (Johannes Charlier, Kreavet, Belgiun National)
			13h50	Initial Q&A, format of breakout groups, Assembly and Discussions
			14h10	Coffee/Networking/Opportunity for Initial Informal Feedback
			14h30	Breakout Discussions
			15h10	Rapporteur Summaries
			15h40	Panel Discussion with speakers and chairs
			16h10	Capture the agreed workshop outcomes
	1		16h30	Final comments and close



17h00	Welcome and Opening (Prof. Sven Parsons, Afrivet & Dr Claire Rogel-Gaillard, INRAE)
17h15	Keynote: Avian Influenza: An African perspective (Prof. Celia Abolnik, University of Pretoria)
18h15	Keynote: What Innovative approaches and technologies would be applicable for vaccine development and production in Africa? (Prof. Baptiste Dungu, Design Biologix and University of Kinshasa)
19h30	Welcome Reception at the Safari Lodge Hotel (dress code, smart casual)

Day 2 - Saturday 18 November

07h30 – 08h30	Registration and Arrival Coffee/Tea					
VENUE		VENUE 1 – NDLOPFU	VENUE 2- INGWE/MHELEMBE		VENUE 3- NDAU/NARI	
08h30		Session 1.1.1		Session 1.2.1		Session 1.3.1
		INNATE IMMUNITY	IMMUNO-INFORMATICS			IMMUNOLOGY OF VIRAL DISEASES (1)
		: Teresa Freire & Yolandy Lemmer	Chairs: Chr	istine Maritz-Olivier & Michelle Baker		Chairs: Celia Abolnik & Gerald Chege
	Presenter	Abstract nr. and Title	Presenter	Abstract nr. and Title	Presenter	Abstract nr. and Title
08h30	Werling, Dirk	The role of bovine dectin-1 in inducing trained immunity and cross-protection	Malgwi, Samson	(025) Reverse vaccinology approach in designing a multiepitope-based vaccine against <i>Babesia</i> from rhoptry-associated protein 1 (RAP-1) antigen	Barone, Lucas	(225) Bovine viral diarrhoea virus (BVDV) preferentially infects arginase-producing bovine monocyte-derived macrophages
08h48			Wattrang, Eva	(058) Single-cell RNA-seq mapping of chicken peripheral blood leukocytes	Nedumpun, Teerawut	(057) Cyclooxygenase (COX)-2 inhibitor inhibited porcine reproductive and respiratory syndrome virus (PRRSV) type 2-induced M2 macrophage polarization
09h06	Bettin, Leonie	(068) Contributions of porcine gamma- delta T cells to antiviral immunity: An investigation into Toll-like receptor expression and potential cytotoxic activity	Adeleke, Matthew A.	(162) Immuno-informatics analysis of antigens as candidate vaccines against Eimeria and Toxoplasma for chickens	Summerfield, Artur	(072) A systems immunology approach to identify protective and detrimental innate and adaptive immune responses following ASFV infection of pigs
09h24	Faber, Erika	(116) Virulent African horse sickness virus serotype 4 interferes with the innate immune response in horse peripheral blood mononuclear cells <i>in vitro</i>			Kaeser, Tobias	(107) Modified-live virus vaccination induces heterologous immunity against different type-2 PRRSV strains
09h42					Di Placido, Marie	(146) Characterization of foot-and-mouth disease virus cross-serotypes reactive and neutralizing antibodies
10h00	Refreshment Break in Foyer					



VENUE	VENUE 1 – NDLOPFU		VEI	NUE 2- INGWE/MHELEMBE	VENUE 3- NDAU/NARI		
10h30		Session 1.1.2	Session 1.2.2		Session 1.3.2		
	TISSUE-SPECIFIC IMMUNITY		ZOONOSES		IMMUNOLOGY OF BACTERIAL DISEASES		
	Chair: Sven Parsons & Crystal Loving		Chair.	Gilles Foucras & Michelle Miller		Chair: Femke Broere & Wynand Goosen	
10h30	Chapuis, Ambre (presented by Hope, Jayne)	(029) Characterization of bovine and ovine ileal organoids after polarity exchange.	Dorhoi, Anca	(041) Host adaptation of Lagos bat lyssavirus is driven by inhibition of type I interferon	Bresser, Laura	(030) Chitosan hydrogel induces immune cell recruitment in the bovine mammary gland and increases cure rates of intramammary infections caused by <i>Staphylococcus</i> spp.	
10h48	Jungersen, Gregers	(050) Induction of antigen-specific secretory IgA in small intestine of newborn piglets after parenteral immunization with retinoic acid-enhanced adjuvant	Freire, Teresa	, Teresa (015) <i>Fasciola hepatica</i> infection in cattle alters the immunity induced by respiratory vaccine		(156) The impact of age on vitamin D receptor expression, vitamin D metabolism and associated cytokines in ex vivo <i>Rhodococcus equi</i> infection of equine alveolar macrophages	
11h06	Myslinska, Joanna	(088) Precision-cut lung slices (PCLS) as a platform to study <i>Mycoplasma</i> <i>hyopneumoniae</i> interactions with porcine lung tissue	Marti, Andrea	(108) Adaptation of Japanese encephalitis virus in pigs can enhance virulence, virus replication, viral shedding and innate immune responses	Dorhoi, Anca	(046) Modelling immune responses of cattle to mycobacteria using magnetic bioprinted granulomas	
		(128) The role of pathogens and anti-	IMMUNOLOGY OF WILDLIFE AND EXOTICS				
11h24	Crisci, Elisa	PRRSV immunity in the Porcine Respiratory Disease Complex	Seguel, Mauricio	(081) Maternal care favours development of distinct immunotypes in a marine mammal			
11h42	Loving, Crystal secreting cell populations in pigs at RNA Steinbach, Herpesvirus		(176) Elephant Endotheliotropic Herpesvirus (EEHV) Vaccine and First in- Elephant, Proof-of-Concept Trial				
12h00	POSTER SESSION 1						
13h00	Lunch in the Safari Lodge						
14h00	GOLD SPONSOR	GOLD SPONSOR PRESENTATION: CSIRO					
14h15-15h15		Plenary 1 : BCG and innate response in cattle and pigs – is it memory or constant reminder? (Crystal L. Loving, PhD, USDA-ARS-NADC) Chair: Yolandy Lemmer					



VENUE	VENUE 1 – NDLOPFU		VEN	IUE 2- INGWE/MHELEMBE		VENUE 3- NDAU/NARI	
15h25		Session 1.1.3	Session 1.2.3		Session 1.3.3		
	ADAPTIVE IMMUNITY		IMMUNOLOGY OF PARASITE DISEASES		VACCINE DEVELOPMENT (1)		
	Chair: A	Alejandra Capozzo & Francois Maree	Chair: Eva Wattrang & Christiaan Stutzer			Chair: Vish Nene & Marietha O'Kennedy	
15h25	Okagawa, Tomohiro	(019) PD-L1 blockade enhances T-cell response to vaccination in calves	Hiromi Okino, Cintia	(002) Improved mucosal response against hemonchosis related to βA allele of ovine beta-globin gene	Lemmer, Yolandy	(036) Immunogenicity of a plant-produced African horse sickness polyvalent vaccine validated in IFNAR mice.	
15h43	Crowley, Dan(023) Diet and defences: low affinity antibodies in bats are affected by food qualityDa Silva Costa, Monique(007) Effects of experimental Fasciola hepatica infection on the long-term immune response of the foot and mouth disease vaccine		Hope, Jayne	(042) Single-cell RNA-Seq Reveals Multiple Sub- Populations of Bovine Afferent Lymphatic Dendritic Cells Draining the Skin			
16h00	Refreshment Br	eak					
16h15	Takeuchi, Hiroto	(063) Exploring the therapeutic potential of canine TGF-β decoy receptor for melanoma that reverses TGF-β1– mediated immunosuppression	Wattrang, Eva	(049) Local immune responses to <i>Eimeria tenella</i> infection in immune chickens – a possible role for interferon- γ induced genes in the inhibition of parasite replication	Ashley, Emily	(043) Evaluation of a Live Attenuated Pseudorabies Virus-Vectored Nipah Virus Vaccine	
16h33	Lauterkorn, Nira	(087) Transwell cultures of lymph node derived cells for the in vitro monitoring of adaptive immune responses in pigs	(077) Dynamics of mucosal and systemic Th2 / Th1 effector T cells in response to tissue migrating Ascaris		Jungersen, Gregers	(051) Vaccine immunogenicity in pigs after immunization at different injection sites with liposome- based adjuvants containing specific immunomodulators	
16h51			Hellman, Stina	(157) Equine organoid-derived monolayers as a novel <i>in vitro</i> model to study host-parasite interactions			
17h10	Close of Day2						
18h30	Boma Braai at Cattle Baron (only for guests who pre-registered)						



Day 3 – Sunday 19 November

Presenter Hamid, Benjamin-Layla Dry, Inga Di Placido, Marie	Session 2.1.1 WORKSHOP 3- IMMUNOLOGICAL TOOLKIT SESSION Chair: Jayne Hope Abstract nr. and Title (071) CD38 expression on porcine αβ-T-cell subsets and its role in T-cell activation (037) The Immunological Toolbox: Advancing veterinary immunology research through the generation of novel reagents	08h30: Welcome 08h35: Opening (08h55: Panel Disc		
Hamid, Benjamin-Layla Dry, Inga Di Placido, Marie	Chair: Jayne Hope Abstract nr. and Title (071) CD38 expression on porcine αβ-T-cell subsets and its role in T-cell activation (037) The Immunological Toolbox: Advancing veterinary immunology	08h30: Welcome 08h35: Opening (08h55: Panel Disc	low- and middle-income countries (Dr Musa Mulongo) (Dr Andy Peters)	
Hamid, Benjamin-Layla Dry, Inga Di Placido, Marie	Abstract nr. and Title (071) CD38 expression on porcine αβ-T-cell subsets and its role in T-cell activation (037) The Immunological Toolbox: Advancing veterinary immunology	08h35: Opening (08h55: Panel Disc	(Dr Musa Mulongo) (Dr Andy Peters)	
Hamid, Benjamin-Layla Dry, Inga Di Placido, Marie	 (071) CD38 expression on porcine αβ-T-cell subsets and its role in T-cell activation (037) The Immunological Toolbox: Advancing veterinary immunology 	08h35: Opening (08h55: Panel Disc	(Dr Andy Peters)	
Benjamin-Layla Dry, Inga Di Placido, Marie	activation (037) The Immunological Toolbox: Advancing veterinary immunology	08h55: Panel Dise		
Di Placido, Marie			cussion 1- Multivalent approach for the improvement of inactivated vaccines	
Marie		09h05: Panel Dise	inant diseases in Africa (<i>Dr Hezron Wesonga, KALRO</i>) cussion 2- Clinical trials to develop a subunit vaccine for contagious bovine	
	(147) A customizable suite of methods to sequence and annotate cattle antibodies	09h15: Q&A Sessi		
Entrican, Gary	Recombinant antibodies driving immunological research		cussion 3- Improvement of Theileria parva sporozoite vaccine (ITM) against East	
Hammond, John	The future of the Toolbox		ime Madder, ClinGlobal)	
Round Table facilit	ated discussions		cussion 4- Development of 2 multivalent RVF vaccines for improved uptake in catt	
Feedback from dis	cussions via rapporteurs	and in small ruminants (<i>Dr Lamia Rafi, MCI</i>) 09h40: Public Q&A Session		
Refreshment Breal	(
	Session 2.1.2	Session 2.2.2		
		IMMUNODIAGNOSTICS		
		Chair: Yolandy Lemmer & Joan Lunney		
Presenter	Abstract nr. and Title		Abstract nr. and Title	
Hammer, Sabine E.	(020) Comparative analysis of swine leukocyte antigen (SLA) gene diversity in Göttingen Minipigs	Khalid, Hamza (presented by Hope, Jayne)	(012) Investigating the biomarker potential and development of lateral flow assays to detect host proteins for improved diagnosis of bovine tuberculosis	
Robert, Jacques	(067) Role of nonpolymorphic MHC-I and innate-like T cells in resistance and tolerigenic neonatal immunity to mycobacteria	Sengun, Ezgi	(005) Revealing the sheep immune cell composition using multidimensional flor cytometry	
Rogel-Gaillard, Claire	(129) A revised view of putative functional histocompatibility genes in the SLA complex	Jansen van Vuren, Petrus	(124) Highly multiplexed serology and epitope discovery for viral veterinary diseases	
Schwartz, John (126) Haplotypic and allelic diversity of non-classical MHC class I in C.		Fehrsen, Jeannie (presented by Van Schalkwyk, Antoinette)	(161) Identification of novel epitopes capable of differentiating between vaccine and field lumpy skin disease virus.	
Hammond, John	An update on species and tools on IPD-MHC			
	Feedback from dis Refreshment Break Presenter Hammer, Sabine E. Robert, Jacques Rogel-Gaillard, Claire Schwartz, John C.	Feedback from discussions via rapporteurs Refreshment Break Session 2.1.2 WORKSHOP 4- VIC MHC Chair: John Hammond Presenter Abstract nr. and Title Hammer, Sabine (020) Comparative analysis of swine leukocyte antigen (SLA) gene diversity in Göttingen Minipigs Robert, Jacques (067) Role of nonpolymorphic MHC-I and innate-like T cells in resistance and tolerigenic neonatal immunity to mycobacteria Rogel-Gaillard, (129) A revised view of putative functional histocompatibility genes in the SLA complex Schwartz, John (126) Haplotypic and allelic diversity of non-classical MHC class I in ruminants	Feedback from discussions via rapporteurs and in small rumin 09h40: Public Q8 Refreshment Break Session 2.1.2 WORKSHOP 4- VIC MHC Chair: John Harmond Presenter Abstract nr. and Title Hammer, Sabine (020) Comparative analysis of swine leukocyte antigen (SLA) gene diversity in Göttingen Minipigs Khalid, Hamza (presented by Hope, Jayne) Robert, Jacques (067) Role of nonpolymorphic MHC-I and innate-like T cells in resistance and tolerigenic neonatal immunity to mycobacteria Sengun, Ezgi Rogel-Gaillard, Claire (129) A revised view of putative functional histocompatibility genes in the StA complex Jansen van Vuren, Petrus Schwartz, John (126) Haplotypic and allelic diversity of non-classical MHC class I in ruminants Fehrsen, Jeannie (presented by Van Schalkwyk, Antoinette)	



12h00	POSTER SESSION 2
13h00	Lunch
14h00	Plenary 2: Adaptive immunity: T and B cell biology" but will provide a more specific title closer to the time (Dr Wilhelm Gerner, The Pirbright Institute) Chair: Eva Wattrang
15h00	Distinguished Veterinary Immunologist- Award & Presentation (Dr Joan Lunney) Chairs: Claire Rogel-Gaillard & Paul Wood
16h00	Close of Day 3
16h30	Game Drive (limited to pre-registered guests)
19h00	Official Symposium Dinner under the African Sky (dress code casual and something warm for the cool evening)*







Day 4 – Monday 20 November

07h30 - 08h30	Registration and Arrival Coffee/Tea					
Venue		VENUE 1 – NDLOPFU	VENUE 2- INGWE/MHELEMBE			
08h30		SESSION 3.1.1	SESSION 3.2.1			
		IMMUNOGENOMICS & RESISTANCE TO DISEASE		VACCINE DEVELOPMENT (2)		
		Chair: Claire Rogel-Gaillard & Ivy Tshilwane		Chair: Baptiste Dungu & Melany Chitray		
	Presenter	Abstract nr. and Title	Presenter	Abstract nr. and Title		
08h30	Foucras, Gilles (132) Inborn errors of immunity in domestic ruminants: lessons learned from two examples		Win, Shwe Yee	(065) In vitro evaluation of cysteine protease and ferritin 2 as vaccine antigens with broad efficacy across avian mites, poultry red mites, tropical fowl mites, and northern fowl mites		
08h48	Kammerer, Robert	(160) Living with only two arms: The TRDC-knockout pigs lacking $\gamma\delta$ T cells	Devriendt,	(091) Aminopeptidase N-mediated transport across the small intestinal epithelium		
		IMMUNE-REGULATION AND MODULATION	Bert	drives gut immunity to oral vaccine antigens in pigs		
09h06	Chitko- McKown, Carol	(062) Effect of probiotics in milk replacer on the microbiome of the lung in neonatal dairy calves	Gourapura, Renukaradhya	(120) Mannose-chitosan nanoparticle surface adsorbed inactivated influenza virus vaccine elicits cross-protective humoral immunity in pigs		
09h24	Riva, Federica(079) Bovine colostrum supplementation in rabbit diet modulates gene expression of cytokines, gut vascular barrier and red-ox related molecules in the gut wall		Mashudu, Nesane	(221) Single dose new generation heartwater vaccine for smallholder farmers		
09h42			Steinbach, Falko	(149) The ISG15 network is crucial and tightly regulated in the early protection of classical swine fever virus C strain vaccine		
10h00	Refreshment Bre	eak				
10h30		Session 3.1.2		Session 3.2.2		
		COMPARATIVE IMMUNOLOGY Chair: Gregers Jungersen & Chris Marufu		IMMUNOLOGY OF VIRAL DISEASES (2) Chair: Alri Pretorius & Artur Summerfield		
10h30	Le Nours, Jerome	(013) Molecular insights into the family of MHC-like molecules (UTs) from marsupials	Capozzo, Alejandra	(010) Avidity ELISA as an alternative to the Virus Neutralization test to assess Foot-And- Mouth Disease vaccine-induced antibody responses in buffaloes (Bubalus Bubalis)		
10h48	Görig, Samira Christin	(032) Pathogen recognition by bovine myeloid C-type lectin receptors	Silva, Ediane	(190) African Swine Fever: Cellular and Humoral Immune Response of pigs vaccinated with Live Attenuated Strain		
11h06	Miller, Laura	(085) How do <i>Odocoileus virginianus</i> (white-tailed deer) weather SARS- CoV-2 infection?	Rojas, José M	(208) Peste des petits ruminant's virus activates goat dendritic cells but impairs antigen presentation		
11h24	Devriendt, Bert	(086) Transcriptional profiling of blood and liver Natural Killer cells reveals the presence of a novel liver Natural Killer cell subset in swine.	Sevilla, Noemi	(209) Comprehensive immune profiling reveals that arbovirus infection activates immune checkpoints during acute t cell immunosuppression		

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10h30		Session 3.1.2	Session 3.2.2			
		COMPARATIVE IMMUNOLOGY	IMMUNOLOGY OF VIRAL DISEASES (2)			
		Chair: Gregers Jungersen & Chris Marufu		Chair: Alri Pretorius & Artur Summerfield		
11h42	Noble, Alastair (presented by Graham, Simon)	(090) Distinct effector functions mediated by Fc regions of bovine IgG subclasses and their interaction with Fc gamma receptors	Louloudes- Lazaro, Andres	(222) Bluetongue virus disrupts the type-I interferon response by interfering with the cGAS pathway		
12h00	POSTER SESSION 3					
13h00	Lunch					
14h00	Plenary 3: Imm	nunogenetics : Immunogenomics and resistance to disease (Dr Mich	nelle Baker, CSIRC)		
	Chairs: Crystal Loving & Alejandra Capozzo					
15h00	Keynote: Streptococcus suis interactions with B lymphocytes: uncovering the role of IgM (Prof. Mariela Segura, Université de Montréal)					
16h00	Body break (10 mins)					
16h10	Keynote: Veterinary Immunology: from knowledge to solutions (Dr Samuel Thevasagayam, Bill and Melinda Gates Foundation) Chair: Vish Nene					
17h00	Close of Symposium, Poster Awards and hand-over to 2025 IVIS hosts					

Day 5 – Tuesday 21 November

VENUE	VENUE 1 – NDAU/NARI	VENUE 2- INGWE/MHELEMBE
08h30 – 10h00		LVIF Final Event Round table dissection (closed event)
10h00 – 11h00	Brunch in the Safari Lodge	Refreshment Break (LVIF)
11h00 – 13h00	Workshop 5 Supporting early career researchers in veterinary immunology and vaccinology research (International Veterinary Vaccinology Network (IVVN))	LVIF Final Event (closed event)
12h30 – 13h15	Close of Symposium	Lunch (LVIF)
13h15 – 15h00		LVIF Final Event (closed event)
15h00 – 15h30		Refreshment Break (LVIF)
15h30 – 17h00		LVIF Final Event (closed event)



POSTERS

Day 2 – Saturday 18 November

Poster Session	Theme	Presenter	Title
1 – 12h15	Innate Immunity	Riva, Federica	(080) Different immune response against Gram positives and Gram negative mammary infection revealed by two dairy cow breeds.
1 – 12h15	Innate Immunity	Broere, Femke	(082) Characterization of polarization states of canine monocyte derived macrophages
1 – 12h15	Innate Immunity	Rodriguez, Natalia	(113) Immunological Response to Increased Intestinal permeability on Endurance Exercise Horses
1 – 12h15	Innate Immunity	Matis, Gabor	(123) The immunomodulatory action of the antimicrobial peptide IDR-1002 in a hepatic cell culture model of chicken origin
1 – 12h15	Innate Immunity	Foucras, Gilles	(133) Which factors modulate the bovine whole blood response to LPS: Nature vs Nurture?
1 – 12h15	Innate Immunity	Ardali, Razieh	(150) In vitro screening of immunostimulatory ligands for induction of trained immunity in porcine monocyte/macrophages
1 – 12h15	Innate Immunity	Ardali, Razieh	(152) Harnessing trained immunity to enhance resistance of piglets against infections
1 – 12h15	Innate Immunity	Loving, Crystal	(167) Altered cytokine production and gene expression by porcine monocytes following neonatal inoculation with bacillus Calmette-Guerin (BCG)
1 – 12h15	Innate Immunity	Becker, Sage	(171) Impact of butyrate on short-chain fatty acid receptor expression in porcine monocytes
1 – 12h15	Innate Immunity	Riva, Federica	(177) Canine amniotic fluid at birth: From a discarded sample to a potential diagnostic of neonatal maturity and health.
1 – 12h15	Innate Immunity	Franzoni, Giulia	(187) Heterogeneity of Phenotypic and Functional Changes to Porcine Monocyte-Derived Macrophages Triggered by Diverse Polarizing Factors In Vitro
1 – 12h15	Innate Immunity	Castillo, Amanda	(189) PMN support <i>Brucella</i> dispersal with reduced immune recognition
1 – 12h15	Adaptive Immunity	Brunner, Milena	(022) Unravelling signals important for early chicken B-cell development
1 – 12h15	Adaptive Immunity	Maekawa, Naoya	(075) Immune checkpoint blockade for cancer immunotherapy in dogs: updated results from a clinical study using anti-PD-L1 antibody (c4G12)
1 – 12h15	Adaptive Immunity	Broere, Femke	(083) Cellular and Humoral immune responsiveness to inactivated Leptospira interrogans in dogs vaccinated with a tetravalent Leptospira vaccine
1 – 12h15	Adaptive Immunity	Fanning, Liam	(111) Immune biome of Bovine Colostrum
1 – 12h15	Adaptive Immunity	Schwartz, John C	(144) The influence of the germline antibody loci on the pig and warthog antibody repertoire
1 – 12h15	Adaptive Immunity	Perez-Filgueira, Mariano	(154) Increased antigenic broadness in the adaptive humoral immunity elicited by different Foot and Mouth Disease vaccine regimes against heterologous viral strains.
1 – 12h15	Adaptive Immunity	Mair, Kerstin	(159) Characterization of novel memory marker on porcine T cells



Poster Session	Theme	Presenter	Title
1 – 12h15	Adaptive Immunity	Woziri, Abubakar	(185) Evaluation of haematological biomarkers of immune response in chickens following <i>in vivo</i> administration of inactivated Avian Influenza H5 vaccine
1 – 12h15	Immunology of viral diseases 1	Hiromi Okino, Cintia	(016) Essential oils able to completely inhibit the avian coronavirus replication.
1 – 12h15	Immunology of viral diseases 1	Nedumpun, Teerawut	(056) Different macrophage polarization patterns induced by porcine reproductive and respiratory syndrome viruses (PRRSV)
1 – 12h15	Immunology of viral diseases 1	Crisci, Elisa	(110) Predict and Protect against PRRSV (PreProPRRSV): Combining PRRSV forecasting technology with vaccine efficacy prediction to prevent PRRSV outbreak.
1 – 12h15	Immunology of bacterial diseases	Gottschalk, Marcelo	(098) IgM antibodies play a major role in the elimination of <i>Streptococcus suis</i> serotype 2
1 – 12h15	Immunology of bacterial diseases	Gottschalk, Marcelo	(099) Streptococcus suis surface-antigen recognition by antibodies and bacterial elimination is influenced by capsular polysaccharide structure
1 – 12h15	Immunology of parasite diseases	Hiromi Okino, Cintia	(028) Ovine resistance against <i>Haemonchus contortus</i> : Does a breed or a β -globin subtype feature?
1 – 12h15	Immunology of parasite diseases	Ndaba, Bongeka	(191) Evaluation of global immune responses in goats infected with Haemonchus contortus using RNA sequencing
1 – 12h15	Immunology of parasite diseases	Stutzer, Christian	(227) A Comparative immunological profile of <i>Babesia microti</i> infected BALB/c mice co-infested with <i>Ixodes ricinus</i> ticks and its effect on immunisation
1 – 12h15	Immunology of parasite diseases	Stutzer, Christian	(228) In vivo evaluation of Ixodes ricinus induced effects on T and B-cell maturation in the spleen and lymph nodes of BALB/c mice
1 – 12h15	Vaccine Development 1	Chiweshe, Stephen	(014) Comparison of immunogenicity of vaccine payloads delivered by 3 different viral vaccine vectors.
1 – 12h15	Vaccine Development 1	Beddoe, Travis	(039) The development of a subunit vaccine for the control of crocodilepox virus infection in farmed Australian saltwater crocodiles (crocodylus porosus)
1 – 12h15	Immunoinformatics	Gambu, Asanda	(026) In silico prediction of CD4+ T cell and B cell epitopes targeting H. contortus vaccine antigens
1 – 12h15	Immunoinformatics	van der Byl, Cara	(114) In silico prediction of CD4 T cell and B cell epitopes of the peptidase and GTPase protein families of Haemonchus contortus
1 – 12h15	Immunoinformatics	Bambeni, Thandikhaya	(186) In silico analysis of GPI-anchored hypothetical proteins from Babesia bovis as potential vaccine candidates
1 – 12h15	Zoonoses	Ghielmetti, Giovanni	(139) Mycobacterium tuberculosis in a captive African Elephant: identification of mixed infection Using Whole Genome Sequence Data
1 – 12h15	Zoonoses	Martins de Camargo, Maristela	(164) Saliva as a non-invasive tool for monitoring microbial diversity and pathogens in wildlife
1 – 12h15	Zoonoses	Chege, Gerald	(168) The use of interferon-gamma releasing assays (IGRA) to improve the detection of tuberculosis in captive-bred non-human primates
1 – 12h15	Zoonoses	Nelson, Bukamba	(195) Isolation of bacteriophages against salmonella isolates from environmental water samples and gorilla feces collected from Bwindi impenetrable national park
1 – 12h15	Immunology of wildlife and exotics	Gumbo, Rachiel	(035) Cytokine release assay for the detection of Mycobacterium bovis infection in African Lions (Panthera leo), Cheetahs (Acinonyx jubatus) and Leopards (Panthera pardus)



Poster Session	Theme	Presenter	Title
1 – 12h15	Immunology of wildlife and exotics	Espejo, Camila	(158) Dexamethasone increases in vitro immune cell proliferation in response to M. bovis in African buffalo.
1 – 12h15	Immunology of wildlife and exotics	Sarker, Palash	(184) Strengths and Opportunities of One Health Approach for Rabies Control in the Jhalakhati District, Bangladesh, 2022
1 – 12h15	Immunology of wildlife and exotics	Kayigwe, Ahab	(213) Proteogenomic analysis reveals IncRNA-encoded immunopeptides in the devil facial tumour disease
1 – 12h15	Immunology of wildlife and exotics	Roberts, Laura C.	(226) Vaccination of African Penguins (<i>Spheniscus demersus</i>) against H5 high pathogenicity avian influenza: a comparison between an inactivated whole-virus vaccine and a plant-produced virus-like particle

Day 3 – Sunday 19 November

Poster Session	Theme	Presenter	Title
2 – 12h00	Immunodiagnostics	Hammer, Sabine E.	(034) Revisiting the correlation of <i>c-Kit</i> mutation status and treatment decisions in canine mast cell tumours
2 – 12h00	Immunodiagnostics	Chase, Chris	(134) Leukocyte dynamics in vaccinated and unvaccinated animals following dual challenge with Bovine Viral Diarrhea Virus-Mannheimia haemolytica model to compare vaccine efficacy in calves.
2 – 12h00	Immunodiagnostics	Dlamkile, Zinathi	(155) Development of a reverse transcription quantitative real-time PCR assay for the evaluation of a multivalent inactivated vaccine
2 – 12h00	Immunodiagnostics	Capozzo, Alejandra	(172) Assessment of serum IgG-avidity and IgG1 titres as predictors of heterologous protection against foot-and-mouth disease in vaccinated cattle
2 – 12h00	Immunodiagnostics	Marufu, Chris	(175) Comparative analysis of four diagnostic methods to detect Fasciola species in naturally infected slaughter dairy cattle
2 – 12h00	Immunodiagnostics	van der Heijden, Elise	(193) The MicroRNAome of Cattle Infected with Mycobacterium bovis: Towards the Characterization of Potential Novel Biomarkers
2 – 12h00	Immunodiagnostics	Moabelo, Khomotso	(076) Comparison of the Bionote NSP Ab ELISA and PrioCheck FMDV NS ELISA
2 – 12h00	Toolkit	Dry, Inga	(017) Fc-tagged fusion proteins as tools to define veterinary cytokines and investigate immunological receptor/ligand interactions
2 – 12h00	Toolkit	Gourapura, Renukaradhya	(101) Generation and characterization of swine immune reagents for monitoring pig immune status and for biomedical research
2 – 12h00	Toolkit	Schmidt, Selma	(136) CD25, CD40L and CD69 as activation induced markers (AIMs) in porcine T cells
2 – 12h00	Toolkit	Di Placido, Marie	(148) Comparing flow cytometry and bulk transcriptomics with single cell gene expression to characterize cattle B cell subsets
2 – 12h00	Teaching immunology	Oumouna, Mustapha	(214) African Vaccinology Network (AfVANET): an African network by African scientists
2 – 12h00	Tissue-specific immunity	Mackei, Máté	(151) Effects of chicoric acid on a primary hepatic co-culture of chicken origin treated with viral RNA analogue poly I:C

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Day 4 – Monday 20 November

Poster Session	Theme	Presenter	Title
3 – 12h00	Immunology of viral diseases 2	Nefefe, Tshifhiwa	(145) Host immune response to FMDV SAT 1, 2 and 3 infections: Defining mechanisms of persistent infection in cattle.
3 – 12h00	Immunology of viral diseases 2	Mtimunye, Mpendulo	(188) Host immune response to FMDV SAT 1, 2 and 3 infections: Defining mechanisms of persistent infection in cattle.
3 – 12h00	Immunology of viral diseases 2	Yiltawe, Wungak	(212) Foot and Mouth Disease Vaccine Immunogenicity Study Among the Agro-Pastoralists In Plateau State, Nigeria
3 – 12h00	Vaccine Development 2	Wattegedera, Sean	(040) Induction of humoral and cellular responses to parapox virus-vectored antigen for vaccine development
3 – 12h00	Vaccine Development 2	Gottschalk, Marcelo	(047) Immune response against bacterins used to control Streptococcus suis infections in pigs
3 – 12h00	Vaccine Development 2	Gopakumar, Gayathri	(048) Clinical assessment and transcriptome analysis of host immune responses in a vaccination-challenge study using a glycoprotein G deletion mutant vaccine strain of infectious laryngotracheitis virus
3 – 12h00	Vaccine Development 2	Lacasta, Anna	(053) New advances in the development of a subunit vaccine targeting antibody production against African swine fever.
3 – 12h00	Vaccine Development 2	Oboge, Harriet	(055) Spontaneous Nanoliposome Antigen Particleization (SNAP) - a Novel Subunit Vaccine Technology for Livestock Vaccine Development
3 – 12h00	Vaccine Development 2	Corripio-Miyar, Yolanda	(059) Development of a novel recombinant subunit Q fever vaccine for ruminants
3 – 12h00	Vaccine Development 2	Cottingham, Ellen	(060) Virally-Vectored Immunocontraceptives for the Management of Feral Cats in Australia
3 – 12h00	Vaccine Development 2	Kolakowski, Jeannine	(070) Evidence of glycosylation in the schizont life cycle stage of Theileria parva parasites
3 – 12h00	Vaccine Development 2	Hiromi Okino, Cintia	(074) Transcriptomic profiling shows the induction of humoral and cellular response-related genes in pigs following vaccination with an Influenza A nanovaccine
3 – 12h00	Vaccine Development 2	Chege, Hannah	(078) Identification of new antigens as potential sub-unit vaccine candidates for ECF control
3 – 12h00	Vaccine Development 2	Jonsdottir, Sigridur	(093) Allergen specific immunotherapy (AIT) with <i>Culicoides</i> recombinant allergens resulted in decreased <i>in vitro</i> sulfidoleukotriene releas basophil activation test
3 – 12h00	Vaccine Development 2	Gottschalk, Marcelo	(097) Influence of maternal antibodies on the immune response of young piglets vaccinated with a Streptococcus suis serotype 2 bacterin
3 – 12h00	Vaccine Development 2	Li, Hao	(100) Immunogenicity and Protective Efficacy of Ag85A and truncation of PstS1 fusionprotein vaccines against tuberculosis
3 – 12h00	Vaccine Development 2	Borrego, Belen	(102) Safety and efficacy of the Rift valley fever live-attenuated vaccine candidate 40Fp8 in pregnant ewes
3 – 12h00	Vaccine Development 2	Gourapura, Renukaradhya	(103) Characterization of the efficacy of a split swine influenza A virus nasal vaccine formulated with a nanoparticle/STING agonist combination adjuvant in conventional pigs
3 – 12h00	Vaccine Development 2	Hayes, Jack	(104) Isolation of porcine reproductive and respiratory syndrome virus glycoprotein specific monoclonal antibodies from hyperimmune pi
3 – 12h00	Vaccine Development 2	Chitray, Melanie	(105) Foot-and-mouth disease SAT specific virus peptide phage display libraries for the identification of epitopes
3 – 12h00	Vaccine Development 2	Crisci, Elisa	(109) Intranasal Ad5 influenza vaccine elicits hemagglutinin-specific antibody response in pregnant and lactating pigs.



Poster Session	Theme	Presenter	Title
3 – 12h00	Vaccine Development 2	Kaeser, Tobias	(117) The pig as a biomedical animal model to develop treatment and prevention strategies against Chlamydia trachomatis
3 – 12h00	Vaccine Development 2	Cox, Eric	(118) Human whole-cell / B-subunit oral cholera vaccines Duochol and Dukoral induce antibody responses in a porcine model.
3–12h00	Vaccine Development 2	Chase, Chris	(121) Protection of neonatal, colostrum-fed calves with a modified live, intranasal, tri-valent vaccine using an experimental challenge with virulent bovine respiratory syncytial virus
3–12h00	Vaccine Development 2	Fortes de Brito, Rory	(122) Assessment of immunogenicity and efficacy of an attenuated herpesvirus-based vector expressing highly conserved porcine reproductive and respiratory syndrome virus M and NSP5 proteins
3 – 12h00	Vaccine Development 2	Chitray, Melanie	(127) Construction of a FMDV-specific recombinant antibody phage-display bovine libraryfor epitope identification and diagnostic reagents
3–12h00	Vaccine Development 2	Edwards, Jane	(137) Development of methods to isolate natural porcine antibodies that broadly neutralise porcine reproductive and respiratory syndrome viruses
3 – 12h00	Vaccine Development 2	Chabalgoity, Jose A.	(140) A transcriptional signature of effective vaccination in bovines to Foot-and-Mouth Virus Disease (FMDV)
3 – 12h00	Vaccine Development 2	Fisch, Andressa	(142) Applying phage display screening and next-generation sequencing to identify B-cell epitopes from tick salivary antigens
3–12h00	Vaccine Development 2	Young, Alan	(165) A USDA-licensed platform approach for the rapid generation and commercial deployment of bacterial subunit vaccines against emerging diseases.
3 – 12h00	Vaccine Development 2	Maichomo, Monicah	(201) Early stages of developing a subunit bacterial vaccine against camel mastitis
3 – 12h00	Vaccine Development 2	O'Kennedy, Martha	(215) Assembling Newcastle disease virus-like particles in Nicotiana benthamiana plants as potential vaccine
3 – 12h00	Vaccine Development 2	O'Kennedy, Martha	(216) Efficacy of a plant-produced infectious bronchitis virus-like particle vaccine in specific pathogen-free chickens
3 – 12h00	Vaccine Development 2	Mulongo, Moses	(217) TAHSSL: A new R&D and Commercialization Platform at ILRI
3 – 12h00	Vaccine Development 2	Masembe, Charles	(219) No longer a regional problem: molecular evolution and transmission of African swine fever on the African continent
3 – 12h00	Vaccine Development 2	Wilda, Maximiliano	(223) Polysaccharide microparticles as carriers of a recombinant antigen against GnRH in oral vaccination in male rats.
3–12h00	Vaccine Development 2	Miller, Laura	(224) Validation of a Modified Live Virus (MLV) prototype of Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) with replication- competent expression of porcine interferons (IFNs)
3–12h00	Vaccine Development 2	El Wahli, younès	(229) Protective Efficacy Evaluation of Four Inactivated Commercial Vaccines Against Low Pathogenic Avian Influenza H9N2 Virus Under Experimental Conditions in Broiler Chickens
3–12h00	Immune-regulation and modulation	Matthews, Megan Ceris	(069) Investigating the soil mycobacteriome to validate M. bovis tuberculin skin test results
3 – 12h00	Comparative Immunology	Divín, Daniel	(004) Cannabinoid receptor 2 evolutionary gene loss makes parrots more susceptible to neuroinflammation
3 – 12h00	Comparative Immunology	Hammer, Sabine E.	(033) Exploratory screening for miRNA biomarkers in canine multicentric lymphoma
3 – 12h00	Comparative Immunology	Hart, Kelsey	(166) Effects of hydrocortisone, ascorbic acid, and thiamine treatment on immune responses in healthy neonatal foals
3 – 12h00	Comparative Immunology	Mansilla, Florencia	(170) MDP-mediated chronic NOD2 stimulation confers protection against LPS challenge through M2b macrophage polarization in mice



Poster Session	Theme	Presenter	Title
3 – 12h00	Immunogenomics & resistance to disease	Morrison, Liam	(131) Continent-wide population genomics of the African buffalo (Syncerus caffer) indicates infectious disease as a significant selective pressure
3 – 12h00	Immunogenomics & resistance to disease	Jaja, Ishmael	(179) Antibiotic resistance profile of Salmonella isolates obtained from meat in the Eastern Cape Province, South Africa

WORKSHOPS

- 1. Pushing boundaries in veterinary immunology A new era of NGS, with single cell sequencing and spatial transcriptomics
 - Friday 17 November: 08h30 12h30
 - Contact: Chara Mansoor Diagnostech
 - Logo included in all material related the symposium/website
 - 2 x free standing pull-up banners in venue during the welcome function
 - Full/half page advertisement in final programme (sponsor to supply final print ready artwork in PDF format)
 - 3 delegate passes to the day of the Workshop
 - Acknowledgement on website and in final programme
 - Logo in looped presentation in plenary venue

Redefining NGS, one cell at a time. Join us for a half day workshop at IVIS and learn how single cell sequencing is changing the future and leading to fundamental discoveries across multiple areas of biology, including oncology and immunology.

Every day, immunologists deepen our understanding of the immune system's intricate network of responses and interactions. Learn how single cell and spatial multiomics are empowering exciting new research into autoimmunity, immuno-oncology, vaccine development, and beyond.

Explore methods that let you uncover molecular insights, dissect cell-type differences, detect novel cell subtypes and biomarkers, define gene regulatory interactions, and decipher spatiotemporal gene expression patterns.

This workshop will be hosted by renowned researchers in veterinary immunology, Prof Christine Maritz-Oliver and Prof Crystal Loving, as well as supported by Diagnostech and 10x Genomics experts.



We will cover topics like:

- What is Single Cell Sequencing and why are we heading in this direction?
- What is the technology, and what are the limitations?
- How can you successfully design a project using these technologies, and get workable results to publish?
- Bioinformatics, computational difficulties and what to master early on
- Discussion with the experts

2. Novel approaches to the development of anti-bacterial veterinary vaccines

- Friday 17 November: 12h30 16h30
- STAR-IDAZ (facilitators) Gary Entrican (Facilitator)
- Round tables 10 pax x 8

This workshop will review vaccine platform technologies that can be deployed for development of veterinary bacterial vaccines through short presentations by expert speakers followed by breakout discussions in small participant groups. The breakouts are designed to identify gaps in bacterial vaccine development and discuss how these gaps can be addressed using novel vaccine platform technologies. The focus will be on development of fit-for-purpose vaccines with a target product profile that meets the needs of the relevant end-users, including vaccines that will be deployed in LMICs. The outcomes of the individual group discussions will be presented back to the whole workshop delegation in a final Q&A session. The workshop findings will be summarised in a report that can be used to inform on future directions for veterinary bacterial vaccinology research.

This workshop is supported by UKRI BBSRC, STAR-IDAZ, The Methane Hub, Defra, IUIS VIC and the Vaccinology Networks IVVN, VALIDATE and BactiVac.

Draft Programme

- **12.30 -12.40:** Introduction and Aims (Chairs: Jayne Hope and Gary Entrican)
- 12.40 13.50: Short Presentations on Vaccine Development and Vaccine Platform Technologies

12.40: Paul Wood (Monash University, Australia): Importance of designing the vaccine TPP for translational research

12.50: Adam Cunningham (BactiVac, UK): Outer membrane vesicles (OMVs) for bacterial vaccinology

13.00: Brendan Wren (LSHTM, UK): Bacterial glycoconjugate vaccines (delivered by the panel)

- 13.10: Michael Jarvis (The Vaccine Group, UK): Viral vectors for veterinary vaccinology
- 13.20: Helba Bredell (Afrigen, SA): mRNA platforms for veterinary vaccinology
- 13.30: Gary Entrican (University of Edinburgh, UK): STAR-IDAZ vaccine roadmaps
- 13.40: Johannes Charlier (Kreavet, Belgium): DISCONTOOLS bacterial vaccines gaps



13.50 – 14.10: Initial Q&A, format of Breakout Groups, Assembly and Begin Discussions (All, Rapporteurs and Questions TBC*)

14.10 – 14.30: Coffee/Networking/Opportunity for Initial Informal Feedback (All)

14.30 – 15.10: Breakout Discussions (50min)

15.10 – 15.40: Rapporteur Summaries (TBC, 5 min maximum/one slide each, estimated timings**)

15.40 – 16.10: Panel Discussion with Speakers and Chairs

16.10 – 16.30: Capture the Agreed Workshop Outcomes, Final Comments and Close (Chairs)

Expected Outcomes:

- Identify gaps in veterinary vaccinology for bacterial diseases
- Comments that inform on functionality of STAR-IDAZ roadmaps
- Highlight opportunities to address these gaps using novel vaccine platform technologies with a One Health approach
- Maintain awareness of the TPP at all stages of research to develop vaccines that meet end-user needs (especially for LMICs)
- Prepare an informed, positional report that informs funders and networks on areas for funding future research

3. Immunological Toolkit Session

- Sunday 19 November: 08h30 10h00
- Jayne Hope

The Immunological Toolkit session will provide an overview of ongoing work in reagent development and novel technologies and techniques. These will be followed by a discussion session to discuss future priorities and gap analyses in reagent and technology development.

Draft Programme

08h30: Hamid, Benjamin-Layla - (071) CD38 expression on porcine αβ-T-cell subsets and its role in T-cell activation 08h40: Dry, Inga - (037) The Immunological Toolbox: Advancing veterinary immunology research through the generation of novel reagents 08h50: Di Placido, Marie - (147) A customizable suite of methods to sequence and annotate cattle antibodies 09h00: Entrican, Gary - Recombinant antibodies driving immunological research 09h10: Hammond, John - The future of the Toolbox 09h20: Round Table facilitated discussions with pre-shared questions 09h50: Feedback from discussions via rapporteurs



4. VIC MHC

- Sunday 19 November: 10h30 12h00
- John Hammond

Draft Programme

10h30: Hammer, Sabine E. - (020) Comparative analysis of swine leukocyte antigen (SLA) gene diversity in Göttingen Minipigs
10h48: Robert, Jacques - (067) Role of nonpolymorphic MHC-I and innate-like T cells in resistance and tolerigenic neonatal immunity to mycobacteria
11h06: Rogel-Gaillard, Claire - (129) A revised view of putative functional histocompatibility genes in the SLA complex
11h24: Schwartz, John C - (126) Haplotypic and allelic diversity of non-classical MHC class I in ruminants
11h42: Hammond, John - An update on species and tools on IPD-MHC

5. Supporting early career researchers in veterinary immunology and vaccinology research

- Tuesday 21 November : 11h00 15h00
- Carly Hamilton (IVVN)

Draft Programme

"This workshop, hosted by the International Veterinary Vaccinology Network (IVVN), will focus on ways in which we can support early career researchers working in veterinary immunology and vaccinology research. The workshop will be facilitated by a group of IVVN ECR members who will present a white paper which outlines the challenges faced by early career researchers and potential solutions to mitigate these challenges. In addition, there will be presentations from representatives of Afrique One Aspire, Bill and Melinda Gates Foundation (BMGF), The African Academy of Sciences (AAS) and The African Research Universities Alliance (ARUA). All early career researchers, and those who are keen to support the next generation of veterinary immunologists and vaccinologists, are very welcome to join."

IDRC LVIF PANEL SESSION: From bench to market: livestock vaccine development in and for low- and middle-income countries

- Sunday 19 November : 08h30 10h00
- IDRC
 - 08h00: Welcome note by the moderator (Dr Musa Mulongo), followed by an introductory statement and a land acknowledgement will also take place before the event starts.
 - 08h35: Opening speech by the keynote speaker (Dr Andy Peters), background introduction of LVIF project, key accomplishment and possible projections considering the IVIS theme.
- 08h55: Panel session From bench to market: livestock vaccine development in and for low- and middle-income countries



The principal investigator from each of the 4 research projects has 10 Minutes to highlight project.

- 1. What was the success of the project?
- 2. What were the challenges?
- 3. Any innovation or technology used in the vaccine production.
- 4. What can be improved to enhance Project success?
- 5. What was the impact of the Project?
- 6. If the vaccine was successfully produced, would it be affordable to the farmers?

08h55: Panel Discussion 1: MultiVacc

Tittle: Multivalent approach for the improvement of inactivated vaccines against small ruminant diseases in Africa Panellist: Dr Hezron Wesonga | Organization: KALRO

09h05: Panel Discussion 2: CBPP 09:05 Am to 09:15 Am.

Tittle: Clinical trials to develop a subunit vaccine for contagious bovine pleuropneumonia in Kenya. Panellist: Dr Elise Schieck | Organization: ILRI

09h15: Q&A Session 09:15 Am to 09:20 Am.

09h20: Panel Discussion 3: ECF 09:20 Am to 09:30 Am.

Tittle: Improvement of Theileria parva sporozoite vaccine (ITM) against East Coast Fever. Panellist: Maxime Madder | Organization: ClinGlobal

09h30: Panel Discussion 4: RVF 09:30 Am to 09:40 Am.

Tittle: Development of 2 multivalent RVF vaccines for improved uptake in cattle and in small ruminants Panellist: Dr Lamia Rafi | Organization: MCI

09h40: Public Q&A Session



IDRC LVIF FINAL EVENT – Round Table Dissection

- Tuesday 21 November : 08h30 16h30
- IDRC
 - Successful proposed projects that could illustrate the vaccine product candidates from Bench to market
 - Biggest hurdles to achieving proof of concept of livestock vaccine for LMIC market: "valley of death" concept, drawing out the biggest challenges that lead to the valley of death that are specific to livestock vaccine development for LMIC markets
 - How to measure project success. Is it based on vaccine availability, affordability or accessibility?

This will however be a closed-out Event for IDRC grantee principal investigators and invited guests.