

8:00 – 10:00 pm MDAH Meeting Registration and Poster Setup

8:15 – 8:30 am	Welcome Address	
8:30 – 9:15 am	Keynote 1: The Intimate Relationship between Stress and Neurotropic Herpesviruses <i>Clinton Jones</i>	K1
9:15– 5:30 pm	Session 1: Virology Chairpersons: Benedikt Kaufer and Stephen Spatz	
9:15– 9:45 am	State-of-the-Art Lecture: The conserved herpesvirus protein kinase (CHPK) of MDV regulates cellular localization of viral proteins through nuclear localization/export signals in the skin of chickens. <i>Keith Jarosinski</i>	O1
9:45 – 10:00 am	Viral Proteins mediating the intracellular transport of Marek’s disease virus <i>Sareeta Bagri</i>	O2
10:00 – 10:15 am	An avian three-dimensional skin model to study MDV replication in vitro in differentiated keratinocytes. <i>Caroline Denesvre</i>	O3
10:15 – 10:30 am	Mechanisms of cell-to-cell spread of Marek’s disease virus <i>Katie Brooks</i>	O4
10:30 – 11:00 am	Morning Coffee Break (Midway West)	
11:00 – 11:15 am	Discovery and characterization of the vIL-4 Virokine of infectious laryngotracheitis. <i>Stephen Spatz</i>	O5
11:15 – 11:30 am	vCircTrappist: Unraveling viral circRNAs by overcoming challenges in their identification. <i>Alexis Chasseur</i>	O6
11:30 – 11:45 am	Impact of co-infection on ILTV-MG infection dynamics in chickens <i>Sagar Regmi</i>	O7
11:45 – 12:00 pm	Conserved and discriminative expression patterns of circular RNAs in avian herpesvirus used in Marek’s disease vaccine program <i>Camille Ponsard</i>	O8

12:00 – 1:30 pm	Lunch (Grand ABC)	
1:30 – 1:45 pm	The Marek's disease virus (MDV) Meq oncoprotein of vv+MDVs specifically binds the chromatin modifier BRG1 and increases Meq transcriptional activity <i>Joseph Patria</i>	O9
1:45 – 2:00 pm	The mutations in the sequences of the Meq gene of Nigerian Marek's disease virus (MDV) field strains show point mutations common to European and US high virulence strains. <i>Mark Parcels</i>	O10
2:00 – 2:15 pm	Characterizing the activity of the Marek's disease virus virion host shutoff protein. <i>Sophie Cutts</i>	O11
2:15 – 2:30 pm	Molecular nature of Marek's disease virus circulating in India <i>Raja Angamuthu</i>	O12
2:30 – 2:45 pm	Accelerated evolution in Marek's disease virus polymerase mutants <i>Jakob Trimpert</i>	O13
2:45 – 3:00 pm	The regulatory role of MDV on the Wnt/ β -catenin signaling pathway <i>Kun Qian</i>	O14
3:00 – 4:00 pm	Poster Viewing Session 1: Odd number posters (presenters for the odd number posters should be present by their posters)	
4:15 – 5:15 pm	Session 2: Virus/host-omics Chairpersons: Keith Jarosinski and Jakob Trimpert	
4:00 – 4:30 pm	State-of-the-Art Lecture: Precision Transcriptomics of infectious laryngotracheitis virus in a lytic infection. <i>Jeremy Volkening</i>	O15
4:30 – 4:45 pm	The role of exosomes in coordination of immune responses and Marek's disease virus-mediated immune suppression. <i>Sohee Lee</i>	O16
4:45 – 5:00 pm	The effect of immediate-early expression of ILTV glycoprotein D on superinfection exclusion and genomic recombination. <i>Paola Vaz</i>	O17
5:00 – 5:15 pm	Unveiling turkey Herpesvirus genome diversity through bacterial artificial chromosome cloning. <i>Taejoong Kim</i>	O18

Scientific Program:

Friday, July 12

5:15 – 5:30 pm	Host resistance to infectious laryngotracheitis virus and infectious bursal virus compared to Marek's disease virus utilizing highly inbred chicken lines. <i>Julia Blakey</i>	O19
6:30 – 9:30 pm	Reception: Midway Suites 5	

8:30 – 9:15 am	Keynote 2: Lessons learned from autoimmune vitiligo in the Smyth chicken: insights into multifactorial disease and avian immune responses <i>Gisela F. Erf</i>	K2
9:15– 5:30 pm	Session 3: Immunology Chairpersons: Maricarmen Garcia and Shayan Sharif	
9:15– 9:45 am	State-of-the-Art Lecture: Gamma delta T cells in immune responses against avian herpesviruses. <i>Ayumi Matsuyama</i>	O20
9:45 – 10:00 am	Spatio-temporal distribution of HVT and innate immune responses following in ovo inoculation. <i>Emma Armstrong</i>	O21
10:00 – 10:15 am	Determination of the immunomodulatory effects of MDV gene products in a macrophage-like cell line. <i>Sonsiray Alvarez-Navaez</i>	O22
10:15 – 10:30 am	Evaluating the level of immune markers and cell populations related to the immune responses against SA2 and class 9 ILTV in Conjunctiva, Harderian gland and trachea in chickens by RT-PCR and Fluorescence Microscopy. <i>Thanh Tien Tran</i>	O23
10:30 – 10:45 am	Evaluating gene expression profile of immune response markers after ILTV eye-drop and vent brush Vaccination and Revaccination <i>Thanh Tien Tran</i>	O24
10:45 – 11:15 am	Morning Coffee Break (Midway West)	
11:15 – 12:15 pm	Session 4: Clinical Presentations and Diagnosis Chairpersons: Joanne Devlin and John Dunn	
11:15 – 11:30 am	Effects of co-infections on Marek's disease in UK poultry farms and development of novel rapid diagnostic strategies. <i>Soumendu Chakravarti</i>	O25
11:30 – 11:45 am	Detection of a wild-type infectious laryngotracheitis virus in an Australian commercial laying hen farm in the absence of clinical signs: a case report. <i>Priscilla Gerber</i>	O26

11:45 – 12:00 pm	Immunosuppressive viruses in Uruguay: Detection of Marek's disease virus, chicken anemia virus, infectious bursal disease virus and leukosis virus in poultry farms. <i>Sara López Osorio</i>	O27
12:00 – 12:15 pm	Marek's disease reference laboratory at the Pirbright Institute, UK <i>Yongxiu Yao</i>	O28
12:15 – 1:45 pm	Lunch (Grand ABC)	
1:45 – 5:15 pm	Session 5: Pathogenesis Chairpersons: Caroline Denesvre and Mark Parcells	
1:45 – 2:15 pm	State-of-the-Art Lecture: Sequential interactions of Marek's disease virus Meq proteins with polycomb repressive complex proteins during latency establishment <i>Mark Parcells</i>	O29
2:15 – 2:30 pm	Amino-acid insertion in the Meq protein of Marek's disease virus accelerates tumorigenesis. <i>Jumpei Sato</i>	O30
2:30 – 2:45 pm	Effect of polymorphisms in the meq oncogene of Marek's disease virus distributed in Japan on the pathogenicity. <i>Yoshinosuke Motai</i>	O31
2:45 – 3:00 pm	Identification of host factor critical for the proliferation of MDV transformed cell line using CRISPR-Cas9 screen. <i>Yongxiu Yao</i>	O32
3:00 – 3:15 pm	Comparing the effect of vaccination versus host resistance on natural transmission of Marek's disease virus. <i>John Dunn</i>	O33
3:15 – 4:15 pm	Poster Viewing Session 2: Even number posters (presenters for the even number posters should be present by their posters)	
4:15 – 4:30 pm	Characterization of in ovo infection by infectious laryngotracheitis virus; a comparison of molecular detection, histopathology, and light-sheet fluorescence microscopy approaches. <i>Matthew Smallridge</i>	O34
4:30 – 4:45 pm	Expression versus replication of Marek's disease viruses of different pathotypes: high virulence MDVs show increased genome expression relative to virus genome replication in an REV-transformed chicken t-cell line model for latency. <i>Mark Parcells</i>	O35

Scientific Program:

Saturday, July 13

4:45 – 5:00 pm	Role of Marek's disease virus (MDV)-encoded US3 serine/threonine protein kinase in replication and pathogenesis. <i>Sanjay Reddy</i>	O36
5:00 – 5:15 pm	Characterization of the respiratory microbiome of commercial poultry diagnosed with viral respiratory disease complex. <i>Calvin Keeler</i>	O37
6:30 – 9:30 pm	Banquet: Grand Hall at Union Station	

8:30 – 12:00 pm	Session 6: Vaccines Chairpersons: Venugopal Nair and Aijian Qin	
8:30 – 9:00 am	State-of-the-Art Lecture: Dynamic changes in viral loads during Co-infection with a recombinant HVT vector vaccine and highly virulent MDV in vivo. <i>Aijian Qin</i>	O38
9:00 – 9:15 am	Protection induced by Vaxsafe ILT after vaccination of day-old broilers by eyedrop, coarse-spray or gel-spray against a natural in-contact challenge model with virulent wild-type ILTV. <i>Greg Underwood</i>	O39
9:15– 9:30 am	New emerging variants of hypervirulent Marek’s disease virus (HV-MDV) and the development of novel candidate MD vaccines for future challenges. <i>Jun Luo</i>	O40
9:30– 9:45 am	Insights into ILTV vaccine-mediated protection: A comparative assessment of eye drop and vent brush vaccination methods. <i>Tanjin Tamanna Mumu</i>	O41
9:45 – 10:00 am	Construction and immunogenicity of recombinant herpesvirus of turkey expressing VP2 protein of IBDV and gD protein of ILTV. <i>Qingmei Xie</i>	O42
10:00 – 10:15 am	Host-Virus interactions during infection with a wild-type ILTV strain or a glycoprotein G deletion mutant ILTV vaccine strain in an ex vivo system. <i>Gayathri Gopakumar</i>	O43
10:15 – 10:30 am	Genome editing of herpesvirus of turkeys for recombinant vaccine development. <i>Yaoyao Zhang</i>	O44
10:30 – 11:00 am	Morning Coffee Break (Midway West)	
11:00 – 11:15 am	Effect of variable vaccination rate on protection against infectious laryngotracheitis challenge in meat chickens. <i>Stephen Walkden-Brown</i>	O45
11:15 – 11:30 am	Evaluation of MDV-1 vector vaccines for protection against IBD in chickens.	O46

	<i>Blanca Lupiani</i>	
11:30 – 11:45 am	Vaccinal efficacy of Gallid Alphaherpesvirus 3 strain SB1 against Newcastle disease virus, a novel vaccinal vector against avian pathogens. <i>Katherine Ivette Calderón Mayo</i>	O47
11:45 – 12:00 pm	Detection of vaccine and virulent infectious laryngotracheitis viruses following virulent ILTV challenge of chickens with variable vaccination coverage. <i>Awol Assen</i>	O48
12:00 – 1:30 pm	Lunch (Grand ABC)	
1:30 – 2:00 pm	Student Awards and Meeting Wrap-up	

Virology	
LORF9 of Marek's disease virus is involved in the early cytolytic replication of B Lymphocyte and can act as a target for gene deletion vaccine development breeders <i>Aijian Qin</i>	P1
Characterisation of infectious laryngotracheitis virus recombination in chickens vaccinated using different vaccination strategies <i>Walter Tsang</i>	P2
Selective isolation of Marek's disease virus from coinfecting samples containing more than one serotype <i>Muhammad Abid</i>	P3
The role of different Marek's disease virus-encoded microRNAs in maintenance of the transformed phenotype of lymphoblastoid cell lines <i>Ahmed Mohamed</i>	P4
Viral Proteins mediating the intracellular transport of Marek's disease virus <i>Sareeta Bagri</i>	P5
Virus/host-omics	
Dissecting immune cell-types allele-specific expression in response to Marek's disease viral infection <i>Deborah Velez-Irizarry</i>	P6
Characterizing the single-cell immune landscape of Marek's disease viral infection across different genetic backgrounds using single-cell RNA sequencing <i>Cari Hearn</i>	P7
Clinical Presentations and Diagnosis	
Epidemiological investigation of Marek's disease in chicken farms in China <i>Aijian Qin</i>	P8
Current Marek's disease trends in 29 clinics/Veterinary hospitals in 14 states of Nigeria <i>Luka Daba Jwander</i>	P9
Immunohistochemical analysis of Meq expression and immunophenotyping in spontaneous chicken lymphomas occurring in Japan <i>Aoi Kurokawa</i>	P10
Deep sequencing analysis of infectious laryngotracheitis virus (ILTV) unique short (US) genome <i>April Skipper</i>	P11

Pathogenesis	
Pathogenic characterization of Marek's disease virus isolated from chickens in Thailand <i>Aunyaratana Thontiravong</i>	P12
Vaccines	
Generation of recombinant HVT vaccines expressing glycoprotein B (gB) of MDV-1 <i>Liping Liu</i>	P13
Poultry vector vaccines: Innovative serological assays for vaccination monitoring and DIVA testing for avian infectious laryngotracheitis <i>Rafael Forero</i>	P14
Monitoring of a rHVT vaccine against Marek's disease and avian influenza H5 in broiler breeders <i>Bruno Garcia</i>	P15
Field study on Prevexxion® RN efficacy in commercial native broiler in Vietnam <i>Roikhwan Soontravanich</i>	P16
Vaccine and MDV-induced differentially expressed genes in T cells may modulate vaccine protective efficacy through pathways regulating the immune system <i>Huanmin Zhang</i>	P17
Early changes in the thymus of meat type chickens after vaccination with various MDV-1 vaccines <i>Isabel Gimeno</i>	P18
Differences in the early replication and immune responses induced by various CVI-988 strains in egg-type chickens <i>Isabel Gimeno</i>	P19
Generation of avian paramyxovirus type 1 TS09 strain-based recombinants expressing the prefusion glycoprotein B of Marek's disease virus and a chicken cytokine as dual vaccines for in ovo <i>Lei He</i>	P20
Safety and efficacy of Prevexxion RN against Marek's disease virus challenge in Commercial layer-type chickens <i>Roikhwan Soontravanich</i>	P21
Construction and efficacy of gene-knockout attenuated duck plague vaccine <i>Qingmei Xie</i>	P22

Sub-optimal vaccination strategies change ILTV recombination patterns in poultry <i>Turgut Esad Aktepe</i>	P23
Comparative analysis of Prevexxion® RN and Rispens vaccines in commercial white layers: A comprehensive study on performance and productivity under field conditions <i>Mohamed Mounir Radwan</i>	P24
Optimising in ovo herpesvirus of turkey (HVT) - Vectored vaccines: Defining the role of the HVT vNr-13 protein in late-stage embryonic tissues <i>Vishwanatha Reddy Avalakuppa Papi Reddy</i>	P25
Monitoring the take of an avian influenza vector rHVT-H5 vaccine applied in industrial poultry farming in Latin America, using a specific qRT-PCR protocol <i>Luiz Sesti</i>	P26
Vaccine takes evaluation of turkey herpesvirus vector - Newcastle disease recombinant vaccine (HVT-ND) by using on-site iiPCR analyzer <i>Keat Fu</i>	P27