

# Scientific Programme

Time	Abstract Number	Title	Chair/Presenter	Organisation/Institution	Country
8:00		<b>Registration Opens</b> Location: Strathblane Hall			

Time	Abstract Number	Title	Chair/Presenter	Organisation/Institution	Country
10:00 - 13:00		<b>Workshop</b> Location: Fintry Auditorium			
10:00 - 13:00		Post-mortem examination of poultry and diagnostic gross pathology of poultry diseases	Tahseen Aziz	Rollins Animal Disease Diagnostic Laboratory	United States

Time	Abstract Number	Title	Chair/Presenter	Organisation/Institution	Country
10:30 - 12:30		<b>Workshop</b> Location: Sidlaw Auditorium			
10:30 - 12:30		Regional Forum - North Africa - Enzootic avian influenza	Mohammed El Houafi (Co-chair)	Veterinary Institute	Morocco
			Khaled Hussein (Co-chair)	ECO Animal Health	UK

Time	Abstract Number	Title	Chair/Presenter	Organisation/Institution	Country
14:30 - 16:30		<b>Workshop</b> Location: Fintry Auditorium			
14:30 - 16:30		Genome engineering and wider applications	Lonneke Vervelde	The Roslin Institute	United Kingdom

Time	Abstract Number	Title	Chair/Presenter	Organisation/Institution	Country
15:00 - 16:00		<b>Workshop</b> Location: Sidlaw Auditorium			
15:00 - 16:00		Publishing in academic journals: tips to help you succeed	Jennifer Stokes	Taylor & Francis Group	United Kingdom

17:00 - 19:00		<b>WVPA 2017 Exhibition Opening Reception</b> Location: Lennox Suite			
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19:00 - 21:00		<b>WVPA 2017 Welcome Party</b> Location: Edinburgh Castle Please note this is a ticketed event			
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# Scientific Programme

## Tuesday 5 September

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
7:00		<b>Registration Opens</b> Location: Strathblane Hall			

08:00 - 09:45 <b>Keynote</b> Location: Pentland Auditorium					
08:00 - 08:30		Avian influenza	Ian Brown	APHA	United Kingdom
08:30 - 09:00		Understanding how nutrition and metabolism influence poultry health and immunity	Michael Kogut	USDA-ARS	United States
09:00 - 09:30		Parasitic diseases: old and new challenges for the poultry industry	Fiona Tomley	Royal Veterinary College	United Kingdom

09:45 - 10:15	<b>Morning Coffee Break / Exhibition</b> Location: Lennox Suite				
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10:15 - 11:00 <b>Opening Ceremony &amp; Awards</b> Location: Pentland Auditorium					
10:15 - 11:00		Congress Opening & Awards	Alan Pearson	WVPA 2017	United Kingdom
			Philip Hammond	WVPA 2017	United Kingdom
			Frank Ross	Lord Provost, Edinburgh	United Kingdom
			Nigel Horrox	WVPA Global	United Kingdom

11:00 - 11:15	<b>Comfort Break</b> <i>All delegates must vacate Pentland Auditorium in order for the room revolving to take place</i>				
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11:15 - 13:00	<b>Parallel Session: Avian Influenza</b> Location: Pentland Auditorium				
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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:15 - 11:30	PS1-01	H9N2 avian influenza transmission and antigenicity	David Suarez	USDA	United States
11:30 - 11:45	PS1-02	Expression of hemagglutinin gene of avian influenza virus subtype H9 in <i>Leishmania tarentolae</i>	Jahan Ara Begum	Institute of Virology	Germany
11:45 - 12:00	PS1-03	Molecular evolution and pathogenicity of H9N2 avian influenza viruses in Eastern China from 1998-2016	Xiaoquan Wang	Yangzhou University	China
12:00 - 12:15	PS1-04	Single amino acid mutation at site 160 in hemagglutinin contributes to dual receptor binding property of clade 2.3.4.4 H5 subtype avian influenza viruses	Min Gu	Yangzhou University	China
12:15 - 12:30	PS1-05	Highly pathogenic avian influenza H5N8 in Poland, 2016-2017: epidemiological situation and preliminary assessment of pathogenicity in chickens and ducks	Krzysztof Smietanka	National Veterinary Research Institute	Poland
12:30 - 12:45	PS1-06	Antigenic drift of clade 2.3.4.4 H5 subtype avian influenza viruses	Xiufan Liu	Yangzhou University	China
12:45 - 13:00	PS1-07	Protective efficacy of a bivalent H5N1 inactivated vaccine against challenge with different H5N1 clades and H5N8 avian influenza viruses in chickens	Walid Kilany	Animal Health Research Institute	Egypt

11:15 - 13:00 <b>Parallel Session: Nutrition</b> <b>Location: Fintry Auditorium</b>					
11:15 - 11:30	PS2-01	Host and environmental factors affecting the intestinal microbiota in chickens	Jannigje Kers	Utrecht University	The Netherlands
11:30 - 11:45	PS2-02	Ameliorative effects of distillery sludge (DS) upon different immunopathological alterations induced by ochratoxin A (OTA) in broiler chicks	Aisha Khatoon	University of Agriculture Faisalabad Pakistan	Pakistan
11:45 - 12:00	PS2-03	Modification of ochratoxin A induced immunotoxicity by trichosporon mycotoxinivorans; in-vivo study in broiler chicks	Sheraz Ahmed Bhatti	Bahuddin Zakariya University Multan	Pakistan



## Scientific Programme

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
12:00 - 12:15	PS2-04	Impacts of brown macro algae on broiler performance and gut microflora	Sarah Haberecht	University of New England	Australia
12:15 - 12:30	PS2-05	L-Carnitine supplementation improves broiler performance in tropics	Umar Farooq	University of Agriculture Faisalabad	Pakistan
12:30 - 12:45	PS2-06	The impact of diets supplemented with medium chain fatty acids on the performance of broilers challenged with <i>Clostridium perfringens</i>	David Hermans	Nuscience	Belgium
12:45 - 13:00	PS2-07	Influencing insulin and glucagon signaling of broiler chicken by maize- or wheat-based diets	Gábor Mátis	University of Veterinary Medicine	Hungary

11:15 - 13:00 <b>Parallel Session: Parasites</b> <b>Location: Sidlaw Auditorium</b>					
11:15 - 11:30	PS3-01	Prevalence of selected pathogens in layers kept in alternative housing systems revealed by a longitudinal study – Part I: parasites	Angelika Zloch	University of Veterinary Medicine Vienna	Austria
11:30 - 11:45	PS3-02	Morphological and molecular characterization of <i>Heterakis</i> species in reproductive geese flocks	Kamila Bobrek	Wrocław University of Life Sciences	Poland
11:45 - 12:00	PS3-03	Different kinetics of B cells and T cell subsets (CD3+CD4+CD8-, CD3+CD4-CD8+) are characteristic following vaccination of turkeys and chickens against histomonosis	Dieter Liebhart	University of Veterinary Medicine	Austria
12:00 - 12:15	PS3-04	Efficacy and safety of a new fluralaner systemic treatment against poultry red mite ( <i>Dermanyssus gallinae</i> ) infestation in layer farms housed in enriched cages	Emmanuel Thomas	Merck Animal Health	United States
12:15 - 12:30	PS3-05	The anarchy in chemical control of <i>Dermanyssus gallinae</i> , and the need to establish specific EU regulations: the efforts of a COST action	Olivier Sparagano	Coventry University	United Kingdom
12:30 - 12:45	PS3-06	Comparison of the efficacy of different anticoccidial products in controlling coccidiosis in broilers under experimental conditions	Monita Vereecken	Huvepharma NV	Belgium



Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
12:45 - 13:00	PS3-07	Using genome sequencing and oocyst morphology to decipher cryptic Eimeria	Damer Blake	Royal Veterinary College	United Kingdom

11:15 - 13:00 <b>Parallel Session: Antibiotics</b> Location: Lomond Suite					
11:15 - 11:30	PS4-01	The potential of egg shell membrane as antibiotic alternative to improve immunity and health in poultry	Narayan Rath	USDA	United States
11:30 - 11:45	PS4-02	Pharmacokinetics of Tilmovet® in chicken: tissue and plasma concentrations	Wouter Depondt	Huvepharma	Belgium
11:45 - 12:00	PS4-03	Prevalence of antimicrobial resistant and pathogenic e. coli as a predictor for microbiological chick quality	Louise Ladefoged Poulsen	University of Copenhagen	Denmark
12:00 - 12:15	PS4-04	Molecular biological identification of methicillin-resistant Staphylococcus aureus based on microarray assay in turkey and broiler flocks in Germany	Hafez Mohamed Hafez	Free University Berlin	Germany
12:15 - 12:30	PS4-05	Surveillance of Salmonella, Escherichia coli and Campylobacter prevalence and antimicrobial resistance in sentinel turkey farms in Canada	Agnes Agunos	Public Health Agency of Canada	Canada
12:30 - 12:45	PS4-06	Study on molecular determinants for colistin resistance in avian pathogenic Escherichia coli (APEC) from commercial poultry in Italy	Ilias Apostolakos	University of Padova	Italy
12:45 - 13:00	PS4-07	Monitoring of antimicrobial susceptibility of poultry pathogens in The Netherlands, 2015-2016	Jeanine Wiegel	GD Animal Health	The Netherlands

13:00 - 14:00	<b>Lunch Break / Exhibition</b> Location: Lennox Suite				
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14:00 - 15:15 <b>Keynote</b> Location: Pentland Auditorium					
14:00 - 14:30		Challenges in vaccination against Newcastle disease	Vilmos Palya	Ceva	Hungary
14:30 - 15:00		Technology in the management of poultry health and welfare	Marian Dawkins	Oxford University	United Kingdom



## Scientific Programme

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
15:15 - 15:45		<b>Afternoon Coffee Break / Exhibition</b> Location: Lennox Suite			

15:45 - 17:15 <b>Parallel Session: Newcastle disease</b> Location: Pentland Auditorium					
15:45 - 16:00	PS5-01	Host response to Newcastle disease virus challenge in the harderian gland transcriptome	Melissa Deist	Iowa State University	United States
16:00 - 16:15	PS5-02	Expressional analysis of cytokines and chemokines in coloured synthetic female line (CSDL) broilers during virulent Newcastle disease (vND) pathogenesis	Gautham Kolluri	ICAR-Central Avian Research Institute	India
16:15 - 16:30	PS5-03	Phylogenetic characterization of virulent Newcastle disease viruses isolated from commercial poultry in north-western Iran in 2010	Elham Ahmadi	Islaic Azad University	Iran, Islamic Republic Of
16:30 - 16:45	PS5-04	Comparing onset of immunity against NDV challenge of a herpes virus of turkey-double recombinant vaccine containing inserts for Newcastle disease (ND) and infectious bursal disease (IBD) control	Rik Koopman	MSD Animal Health	The Netherlands
16:45 - 17:00	PS5-05	Phylogenetic analysis of Newcastle disease viruses from Bangladesh suggests continuing evolution of genotype XIII	Mohammad Rafiqul Islam	Bangladesh Agricultural University	Bangladesh
17:00 - 17:15	PS5-06	Tracing the origins of Newcastle disease genotype VIIh in Africa	Celia Abolnik	University of Pretoria	South Africa

15:45 - 17:15 <b>Parallel Session: Enteric Diseases</b> Location: Fintry Auditorium					
15:45 - 16:00	PS6-01	Frequent variation of Brachyspira spp during the life cycle of layers kept in alternative husbandry systems	Claudia Hess	University of Veterinary Medicine	Austria
16:00 - 16:15	PS6-02	Efficacy of Bacillus licheniformis administered in the feed for the control of necrotic enteritis caused by Clostridium perfringens in broiler chickens	Wouter Depondt	Huvepharma	Belgium





Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:15 - 16:30	PS6-03	Antimicrobials used for the therapy of necrotic enteritis and coccidiosis in broiler chickens and turkeys in Canada; farm-level results	Agnes Agunos	Public Health Agency of Canada	Canada
16:30 - 16:45	PS6-04	Long-Term Performance of Coccidiosis Control Programs: anticoccidial and vaccine	Linnea Newman	MSD Animal Health	United States
16:45 - 17:00	PS6-05	Investigating the poultry enteric virome: longitudinal sampling of flocks from placement to market	Michael Day	USDA/ARS	United States
17:00 - 17:15	PS6-06	Comparison of Eimeria infection dynamics between broiler flocks with a conventional or on-farm hatching system	Francisca Velkers	Utrecht University, Faculty of Veterinary Medicine	The Netherlands

15:45 - 17:15 <b>Parallel Session: Management/Poultry Welfare</b> <b>Location: Lomond Suite</b>					
15:45 - 16:00	PS7-01	Improvement of welfare, health and immunity by using a dual-purpose chicken in an integrated farming concept	Silke Rautenschlein	University of Veterinary Medicine	Germany
16:00 - 16:15	PS7-02	Influence of perches and elevated platforms on broiler walking ability and footpad condition	Eija Kaukonen	University of Helsinki	Finland
16:15 - 16:30	PS7-03	Environmental enrichment influences behaviour as well as immune parameters in turkeys	Rebecca Lindenwald	University of Veterinary Medicine	Germany
16:30 - 16:45	PS7-04	Prevalence of selected pathogens in layers kept in alternative housing systems revealed by a longitudinal study – part II: microorganisms	Angelika Zloch	University of Veterinary Medicine	Austria
16:45 - 17:00	PS7-05	Road transport-related stress in turkeys and its effect on physiological and immunological parameters	Yossi Wein	The Hebrew University of Jerusalem	Israel
17:00 - 17:15	PS7-06	Impact of hatchery sanitation in an antibiotic-free environment	Sue Ann Hubbard	Merck Animal Health	United States



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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
<b>15:45 - 17:15</b> <b>Parallel Session: Pathology/Diagnostics</b> <b>Location: Sidlaw Auditorium</b>					
15:45 - 16:00	PS8-01	Use of a novel combination of enrichment and semi-quantitative microbiology to improve understanding of pre-placement farm microflora and intestinal flora in poultry	Paul McMullin	Poultry Health Services	United Kingdom
16:00 - 16:15	PS8-02	Comparative pathomorphological studies on the incidence of fractures associated with leg skeletal pathology in commercial broiler chickens	Ivan Dinev	Trakia University	Bulgaria
16:15 - 16:30	PS8-03	Integrating qualitative and quantitative data to enhance veterinary scanning surveillance in poultry in Great Britain	Richard M Irvine	Animal and Plant Health Agency Weybridge	United Kingdom
16:30 - 16:45	PS8-04	Cloacal swabs: an alternative to PCR monitoring and sequencing of infectious bursal disease vaccination	Nadine Cariou	MSD Santé Animale	France
16:45 - 17:00	PS8-05	Subclinical disease in Danish layers - prevalence and aetiology	Ida Thoenner	University of Copenhagen	Denmark
17:00 - 17:15	PS8-06	Re-evaluation of the half-life for two slower growing genetic broiler lines for infectious bursal disease	Rob Vriens	BioChek B.V.	The Netherlands

**17:15 - 17:30**  
**Comfort Break**  
*All delegates must vacate Pentland Auditorium in order for the room revolving to take place*

**17:30 - 19:00**  
**Boehringer Ingelheim Symposium**  
**Location: Pentland Auditorium**





## Wednesday 6 September

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
7:00		<b>Registration Opens</b> Location: Strathblane Hall			

08:00 - 09:45 <b>Keynote</b> Location: Pentland Auditorium					
08:00 - 08:30		Avian tumour viruses: their contribution to our understanding of cancer	Venugopal Nair	Pirbright Institute	United Kingdom
08:30 - 09:00		Present and future of poultry vaccines	Michel Bublot	Boehringer Ingelheim	France
09:00 - 09:30		Virus-induced immunosuppression in poultry	Abdul Rahman Omar	Universiti Putra	Malaysia

09:45 - 10:15	<b>Morning Coffee Break / Exhibition</b> Location: Lennox Suite				
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10:15 - 11:15 <b>Keynote</b> Location: Pentland Auditorium					
10:15 - 11:15		<i>The Avian Pathology Lecture - Genetic analysis of Salmonella, E. coli and Campylobacter infections in poultry</i>	Mark Stevens	The Roslin Institute	United Kingdom

11:15 - 12:45	<b>CEVA Symposium</b> Location: Pentland Auditorium				
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12:45 - 13:45	<b>Lunch Break / Exhibition</b> Location: Lennox Suite				
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13:45 - 14:15 <b>Keynote</b> Location: Pentland Auditorium					
13:45 - 14:15		Past, present and future of avian Mycoplasmas in commercial poultry	Anneke Feberwee	GD Animal Health	The Netherlands



## Scientific Programme

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
14:15 - 14:30		<b>Comfort Break</b> <i>All delegates must vacate Pentland Auditorium in order for the room revolving to take place</i>			

14:30 - 15:30 <b>Parallel Session: Public Health/E.coli/Salmonella/Campylobacter</b> Location: Pentland Auditorium					
14:30 - 14:45	PS9-01	Salmonella spp. contamination of table eggs: Does the age of the hen matter?	Helen Crabb	University of Melbourne	Australia
14:45 - 15:00	PS9-02	Successful use of the "Food Safety Program" by Elanco to support a poultry producer in South-East Asia to control Salmonella in its broiler operation	Alexis Kiers	Elanco	Thailand
15:00 - 15:15	PS9-03	In vitro and in vivo pathogenicity of avian pathogenic Escherichia coli (APEC) in comparison with human uropathogenic Escherichia coli (UREC)	Maciej Kuczkowski	Wroclaw University of Environmental and Life Sciences	Poland
15:15 - 15:30	PS9-04	Comparative genomic analysis of avian pathogenic E. coli and human extra-intestinal pathogenic E. coli belonging to sequence type 95	Steffen Lynge Jorgensen	University of Copenhagen	Denmark

14:30 - 15:30 <b>Parallel Session: Tumour Viruses</b> Location: Fintry Auditorium					
14:30 - 14:45	PS10-01	Lithium chloride inhibits avian leukosis virus subgroup J by suppressing inflammatory responses	Kun Qian	Yangzhou University	China
14:45 - 15:00	PS10-02	Development of a new safe and efficacious serotype 1 Marek's disease vaccine containing a REV LTR insert in its genome	Michel Bublot	Merial	France
15:00 - 15:15	PS10-03	Molecular characterization of Marek's disease virus detected in backyard chickens affected by classical nervous form	Giulia Mescolini	University of Bologna	Italy
15:15 - 15:30	PS10-04	The clinical studies on safety and efficacy tests of the meq gene deleted Marek's disease virus vaccines SC9-1 Strain	Youchang Liu	Zhongchong Sino Bio-Tech Taizhou Co. Ltd.	China





Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
<b>14:30 - 15:30</b>					
<b>Parallel Session: Mycoplasmal/other bacterial diseases</b> <b>Location: Sidlaw Auditorium</b>					
14:30 - 14:45	PS11-01	Investigations of the virulence of Mycoplasma synoviae	Naola Ferguson-Noel	University of Georgia	United States
14:45 - 15:00	PS11-02	Improved detection of Mycoplasma synoviae antibodies using an enzyme-linked immunosorbent assay	Brenda Glidewell	Georgia Poultry Laboratory Network	United States
15:00 - 15:15	PS11-03	Field evaluation of the efficacy of a Mycoplasma synoviae live vaccine in layers	Xavier Dubord	Laboratoire LCV	France
15:15 - 15:30	PS11-04	Complementation of MS-H vaccine strain with wild-type obg influencing its growth characteristics	Muhammad Shahid	The University of Melbourne	Australia

<b>14:30 - 15:30</b>					
<b>Parallel Session: Vaccines</b> <b>Location: Lomond Suite</b>					
14:30 - 14:45	PS12-01	HVT-ND-IBD, a double recombinant HVT- vaccine for simultaneous protection against Newcastle disease, infectious bursal disease and Marek's disease	Gerdy ten Dam	MSD Animal Health	The Netherlands
14:45 - 15:00	PS12-02	Efficacy of different vaccination programs of recombinant HVT-NDV vaccine against genotype VII NDV challenge in broiler chickens	Nataya Charoenvisal	Chulalongkorn University	Thailand
15:00 - 15:15	PS12-03	Evaluation of three vaccine technologies to protect white leghorn chickens from H5N2 clade 2.3.4.4 Gs/GD high pathogenicity avian influenza	David Swayne	Agricultural Research Service, United States Department of Agriculture	United States
15:15 - 15:30	PS12-04	Preparation of mucosal nanoparticles and polymer - based inactivated vaccine for ND and H9N2 AI viruses	Ahmed Hussein	Cairo University	Egypt

<b>15:30 - 16:15</b>					
<b>Afternoon Coffee Break / Exhibition</b> <b>Location: Lennox Suite</b>					



## Scientific Programme

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
<b>16:15 - 17:15</b>					
<b>Parallel Session: Public Health/E.coli/Salmonella/Campylobacter</b>					
<b>Location: Pentland Auditorium</b>					
<b>16:15 - 16:30</b>	PS13-01	Real time colonization characteristics and genomic characterization of Campylobacter coli strain OR12	Peter O'Kane	Slate Hall Veterinary Practice	United Kingdom
<b>16:30 - 16:45</b>	PS13-02	Campylobacter jejuni colonization induces gut leakage and permits the translocation of Escherichia coli to extra-intestinal organs in chickens	Michael Hess	University of Veterinary Medicine	Austria
<b>16:45 - 17:00</b>	PS13-03	Changes in the prevalence of Salmonella, nonspecific Escherichia coli and Campylobacter isolates and their resistance to antimicrobials following industry-led interventions in the Canadian poultry industry	Agnes Agunos	Public Health Agency of Canada	Canada
<b>17:00 - 17:15</b>	PS13-04	Early detection of diseases in the field by monitoring volatile organic compounds	Tim Gibson	Robscientific Ltd	United Kingdom

<b>16:15 - 17:15</b>					
<b>Parallel Session: Immunosuppressive Diseases</b>					
<b>Location: Fintry Auditorium</b>					
<b>16:15 - 16:30</b>	PS14-01	Bursa, thymus and spleen development in broiler breeder pullets vaccinated with a recombinant HVT+IBD vaccine and reared under two feeding programs on new or re-used litter	Enrique Rodolfo Montiel Nava	Merial Select Inc	United States
<b>16:30 - 16:45</b>	PS14-02	Molecular epidemiology of infectious bursal disease virus in Algeria reveals the existence of new reassortant viruses	Mouna Abed	National veterinary School of Algeria	Algeria
<b>16:45 - 17:00</b>	PS14-03	Pathogenicity of a new Italian genotype of infectious bursal disease virus in SPF chickens	Caterina Lupini	University of Bologna	Italy
<b>17:00 - 17:15</b>	PS14-04	Application of MSSCP for genetic characterization and differentiation of infectious bursal disease virus	Anna Pikula	National Veterinary Research Institute	Poland

**16:15 - 17:15**

**Parallel Session: Mycoplasma/other bacterial diseases**

**Location: Sidlaw Auditorium**



Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:15 - 16:30	PS15-01	Development of a multiple-locus variable-number tandem repeat analysis (MLVA) method and the comparative genetic characterization of <i>Mycoplasma synoviae</i> isolates from Central and Eastern-Europe	Miklós Gyuranecz	Centre for Agricultural Research	Hungary
16:30 - 16:45	PS15-02	Quantification and tissue distribution of <i>Mycoplasma gallisepticum</i> and infectious bronchitis virus in experimentally co-infected specific pathogen-free chickens	Dauda Bwala	University of Pretoria	South Africa
16:45 - 17:00	PS15-03	Development and experience with live <i>Mycoplasma</i> vaccines for turkeys	Chris Morrow	Bioproperties	Australia
17:00 - 17:15	PS15-04	Infectious coryza outbreaks in Dutch commercial layer flocks	Remco Dijkman	GD Animal Health	The Netherlands

16:15 - 17:15 <b>Parallel Session: Vaccines</b> <b>Location: Lomond Suite</b>					
16:15 - 16:30	PS16-01	Analysis of the tropism of recombinant infectious bronchitis viruses and their ability to confer protection against homologous challenge	Lonneke Vervelde	The Roslin Institute and R(D)SVS	United Kingdom
16:30 - 16:45	PS16-02	Changing the vaccination strategies has an impact on IBV QX population dynamics and clinical outbreaks	Giovanni Franzo	Padua University	Italy
16:45 - 17:00	PS16-03	Compatibility and interactions of Poulvac IBMM+Ark with Poulvac NDW, Poulvac Bursa Plus and Poulvac E. coli	Harm Geerligs	Zoetis	Belgium
17:00 - 17:15	PS16-04	Development and efficacy of an attenuated TW-I like infectious bronchitis virus strain as a candidate live vaccine for chickens in China	Xiaorong Zhang	Yangzhou University	China

17:15 - 17:30	<b>Comfort Break</b> <i>All delegates must vacate Pentland Auditorium in order for the room revolving to take place</i>
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17:30 - 19:00	<b>MSD Animal Health Symposium</b> <b>Location: Pentland Auditorium</b>
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# Scientific Programme

## Thursday 7 September

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
7:00		<b>Registration Opens</b> Location: Strathblane Hall			

08:00 - 09:45 <b>Keynote</b> Location: Pentland Auditorium					
08:00 - 08:30		Infectious bronchitis virus: Genetic diversity and challenges for control	Mark Jackwood	University of Georgia	United States
08:30 - 09:00		The challenges of FLAWSS in poultry veterinary practice	Hannes Swart	Avimune	RSA
09:00 - 09:30		Necrotic enteritis in broilers: an understanding of pathogenesis leads to successful experimental vaccine development	Robert Moore	RMT University	Australia

09:45 - 10:15	<b>Morning Coffee Break / Exhibition</b> Location: Lennox Suite				
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10:15 - 11:30 <b>Parallel Session: Infectious Bronchitis</b> Location: Pentland Auditorium					
10:15 - 10:30	PS17-01	Report of the proficiency testing scheme (PTS) organized in the framework of WG1 & 4 within the COST Action FA1207: Towards control of avian coronaviruses strategies for diagnosis, surveillance and vaccination 2016	Siamak Zohari	National Veterinary Institute	Sweden
10:30 - 10:45	PS17-02	Increased population homogeneity in ArkDPI vaccine precludes emergence of subpopulations after challenge	Haroldo Toro	Auburn University	United States
10:45 - 11:00	PS17-03	New findings on the genetic correlation between Q1 and 624I genotypes of infectious bronchitis virus	Andrea Laconi	University of Liverpool	Italy
11:00 - 11:15	PS17-04	Phylogeny and evolution of infectious bronchitis virus in Chile	Miguel Guzmán	Universidad de Chile	Chile



Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:15 - 11:30	PS17-05	Identification and characterization of a Middle-East GI-23 lineage of infectious bronchitis virus in Poland	Kasia Domanska-Blicharz	National Veterinary Research Institute	Poland

10:15 - 11:30 Parallel Session: Bacterial Diseases Location: Fintry Auditorium					
10:15 - 10:30	PS18-01	An insight into the evolution of gallibacterium species associated poultry	Anders Miki Bojesen	University of Copenhagen	Denmark
10:30 - 10:45	PS18-02	The use of various "omics" for the understanding of avibacterium paragallinarum	Robert Bragg	University of the Free State	South Africa
10:45 - 11:00	PS18-03	Genotypes of Escherichia coli strains isolated from bone marrow of broilers do not correlate with femoral head lesions	Surya Paudel	University of Veterinary Medicine	Austria
11:00 - 11:15	PS18-04	Absence of chlamydiaceae in Swiss fattening turkey farms	Barbara Renate Vogler	University of Zurich	Switzerland
11:15 - 11:30	PS18-05	Variants of Ornithobacterium rhinotracheale in chicken and turkey	Martin Metzner	Ripac-Labor	Germany

10:15 - 11:30 Parallel Session: Immunosuppressive Diseases Location: Sidlaw Auditorium					
10:15 - 10:30	PS19-01	Comparative study of four IBD intermediate plus vaccines in broiler chickens	Marc Castells Ripoll	Elanco	Spain
10:30 - 10:45	PS19-02	Sequence analyses and comparison of VP2 gene of Infectious bursal disease virus isolates and vaccine strains used in Ukraine	Anna Pastyria	Center of Veterinary Diagnostics	Ukraine
10:45 - 11:00	PS19-03	High viral load of Marek's disease virus in bone marrow tissue of chickens	Zeljko Gottstein	University of Zagreb	Croatia
11:00 - 11:15	PS19-04	Identification of critical residues of chNHE1 binding with ALV-J envelope protein	Yulong Gao	Harbin Veterinary Research Institute, Chinese Academy of Agricultural Sciences	China



## Scientific Programme

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:15 - 11:30	PS19-05	Effects of avian reovirus infection on expression of innate immune genes in peripheral blood lymphocytes of SPF chickens	Zhixun Xie	Guangxi Veterinary Research Institute	China

10:15 - 11:30 Parallel Session: Other Virus Diseases Location: Lomond Suite					
10:15 - 10:30	PS20-01	Spread of the newly emerging infectious laryngotracheitis viruses in Australia	Amir Noormohammadi	The University of Melbourne	Australia
10:30 - 10:45	PS20-02	Presence of DNA extracellular traps but not MUC5AC and MUC5B mucin in mucoid plugs/casts of infectious laryngotracheitis virus (ILTV) infected tracheas of chickens	Vishwanatha Reddy Avalakuppa Papi Reddy	The Pirbright Institute	United Kingdom
10:45 - 11:00	PS20-03	Comparison of serological results from 3 different vaccination programmes with inactivated vaccine against avian metapneumovirus (aMPV) in Colombia	Javier Sanz Corella	Hipra	Spain
11:00 - 11:15	PS20-04	Utilization of a commercial chicken astrovirus group B ELISA to investigate the seroprevalence of chicken astrovirus in broiler breeders associated with "White Chick" disease in the US and Canada	Gwenllyan Slacum	Biochek USA Corp	United States
11:15 - 11:30	PS20-05	Emergence of new avian reovirus variants from clinical cases of tenosynovitis	Holly Sellers	University of Georgia	United States

11:30 - 11:45	<b>Comfort Break</b> <i>All delegates must vacate Pentland Auditorium in order for the room revolving to take place</i>				
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11:45 - 12:45 Keynote Location: Pentland Auditorium					
11:45 - 12:45		<i>Keith Gooderham Waterfowl Lecture</i> - Breeding history of the Pekin duck industry with emphasis on the last 25 years	William Lee	Maple Leaf Farms	United States



Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
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12:45 - 13:45	<b>Lunch Break / Exhibition</b> Location: Lennox Suite				
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13:45 - 14:45	<b>Keynote</b> Location: Pentland Auditorium				
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13:45 - 14:15		Breeding for genetic resistance	Susan Lamont	Iowa State University	United States
14:15 - 14:45		The role of vaccines in ILTV recombination and evolution	Joanne Devlin	University of Melbourne	Australia

14:45 - 15:15	<b>Afternoon Coffee Break / Exhibition</b> Location: Lennox Suite				
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15:15 - 16:45	<b>Parallel Session: Infectious Bronchitis</b> Location: Pentland Auditorium				
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15:15 - 15:30	PS21-01	Detection of a novel recombinant (QX - 793/B) variant of infectious bronchitis virus, related to the xindadi (XDN) type, from a layer flock in Austria	Ivana Bilic	University of Veterinary Medicine	Austria
15:30 - 15:45	PS21-02	Differential immunopathogenesis of virulent infectious bronchitis viruses in SPF chicks	Rajesh Chhabra	Lala Lajpat Rai University of Veterinary and Animal Sciences	India
15:45 - 16:00	PS21-03	Efficacy of combination of infectious bronchitis vaccines including different Mass and 793B genotypes products against a D388 (QX) or Q1 challenge in commercial broilers and SPF layers	Jacobus De Wit	GD Animal Health	The Netherlands
16:00 - 16:15	PS21-04	Protection conferred by heterologous live IBV vaccination is associated with local and cell-mediated immunity	Kannan Ganapathy	University of Liverpool	United Kingdom



## Scientific Programme

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:15 - 16:30	PS21-05	The efficacy of boosting volvac mass MLV (D0) and 793B (D14) vaccinated SPF pullets with a single of double application of the IB component of the multivalent inactivated vaccine volvac ND + IB + EDS KV (BI) against a M41, 793B, D388 (QX), Q1 and variant 2 challenge	Jacobus De Wit	GD Animal Health	The Netherlands
16:30 - 16:45	PS21-06	Recombinant IBV detection and vaccination efficacy. A case report	Elisa Russo	MSD Animal Health	Italy

15:15 - 16:45 <b>Parallel Session: Bacterial Diseases</b> Location: Fintry Auditorium					
15:15 - 15:30	PS22-01	Scanning surveillance of Enterococcus sp infections in British broilers: a pathology study of carcass submissions to Animal and Plant Health Agency (APHA) Lasswade between 2012 and 2016	Alex Schock	APHA Lasswade	United Kingdom
15:30 - 15:45	PS22-02	Differences in susceptibility to experimental enterococcus cecorum infections in broilers and adult broiler breeders	Ida Thoenner	University of Copenhagen	Denmark
15:45 - 16:00	PS22-03	Increased severity of infectious coryza following co-infection of chickens with Avibacterium paragallinarum and Gallibacterium anatis can be minimized by vaccination	Surya Paudel	University of Veterinary Medicine Vienna	Austria
16:00 - 16:15	PS22-04	A novel plasmid-encoded virulence gene cluster contributes to virulence of avian pathogenic Escherichia coli	Charles Martin Dozois	INRS	Canada
16:15 - 16:30	PS22-05	Identification of avian pathogenic e. coli based on latent class analysis of virulence associated genes	Olga Zorman Rojs	University of Ljubljana	Slovenia
16:30 - 16:45	PS22-06	Coligranuloma (Hjärre and Wramby's disease) reconsidered	Wil Landman	GD Animal Health	The Netherlands

15:15 - 16:45 <b>Parallel Session: Other Avian Species, Clinical Case Reports &amp; Key Studies</b> Location: Sidlaw Auditorium					
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Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
15:15 - 15:30	PS23-01	Impact of field viral circulation on turkey performances in France	Guillaume Perreul	Merial	France
15:30 - 15:45	PS23-02	An European Union ostrich farming welfare assurance scheme	Clive Madeiros	West Bar Veterinary Hospital Ltd	United Kingdom
15:45 - 16:00	PS23-03	A field outbreak of coccidiosis/ Tyzzeria in point of lay backyard ducks	Cristina Garcia-Rueda	APHA-Lasswade	United Kingdom
16:00 - 16:15	PS23-04	A veterinary practitioners case report on an outbreak of fowl typhoid ( <i>Salmonella gallinarum</i> ) on a very large colony cage laying unit based in Northern Ireland during 2012. The report outlines the clinical signs, diagnosis and how the outbreak was contained on this farm, including C&D	Ian Stewart	Parklands Veterinary Group	United Kingdom
16:15 - 16:30	PS23-05	PCR-monitoring of histomonosis outbreaks in commercial meat turkey flocks treated with paromomycin	Tarik Sulejmanovic	Clinic for Poultry and Fish Medicine	Austria
16:30 - 16:45	PS23-06	Atypical case of dermatophytosis in commercial layer breeders in Canada	Elise Myers	Merck Animal Health Canada	Canada

15:15 - 16:45 <b>Parallel Session: Vaccines</b> <b>Location: Lomond Suite</b>					
15:15 - 15:30	PS24-01	Marek's disease: focus on the practical aspects of vaccination	Wil Landman	GD Animal Health	The Netherlands
15:30 - 15:45	PS24-02	Fowl aviadenovirus 4 (FAdV-4) based infectious clone as a tool for viral gene function studies and a platform for vaccine development	Eva Nagy	University of Guelph	Canada
15:45 - 16:00	PS24-03	Yeast cell wall fractions as immune modulators: The adjuvant effect of $\beta$ -1,3/1,6 glucans extracted from <i>saccharomyces cerevisiae</i> yeast in chickens vaccinated against viral diseases	Tadele Kiros	Phileo-Lesaffre Animal Care	Canada
16:00 - 16:15	PS24-04	SG9R for fowl typhoid prevention: suggestion of a suitable vaccination program	Jacqueline Boldrin De Paiva	BioCamp Laboratórios Ltda	Brazil



## Scientific Programme

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
16:15 - 16:30	PS24-05	Immunogenicity evaluation of full-length and truncated transmembrane virulence protein Iss from avian pathogenic Escherichia coli (APEC)	Wouter Van Der Westhuizen	University of the Free State	South Africa
16:30 - 16:45	PS24-06	E. coli vaccination, a successful tool to reduce the use of antibiotics for colibacillosis treatment in broiler production	Charles Facon	Labovet Conseil - Reseau Cristal	France

16:45 -  
17:00

**Comfort Break**

*All delegates must vacate Pentland Auditorium in order for the room revolving to take place*

17:00 -  
17:30

**WVPA Open Forum**

**Location: Pentland Auditorium**

17:30 -  
18:15

**General Business Meeting**

**Location: Pentland Auditorium**

19:00 -  
00:00

**WVPA 2017 Gala Dinner**

**Location: National Museum of Scotland**

*Please note this is a ticketed event*



## Friday 8 September

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
7:00		<b>Registration Opens</b> Location: Strathblane Hall			

08:00 - 09:00	<b>Keynote</b> Location: Pentland Auditorium				
08:00 - 08:30		Antibiotics - Use of antimicrobials and antimicrobial resistance in the poultry industry	Alessandra Piccirillo	University of Padua	Italy
08:30 - 09:00		The importance of pathology in diagnostics of poultry diseases	Joan Smyth	University of Connecticut	United States

09:00 - 09:15	<b>Comfort Break</b> <i>All delegates must vacate Pentland Auditorium in order for the room revolving to take place</i>				
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09:15 - 10:15	<b>Parallel Session: Avian Influenza</b> Location: Pentland Auditorium				
09:15 - 09:30	PS25-01	Co-circulation of zoonotic avian influenza H5N1 and H9N2 in Egypt: Evolutionary dynamics, diagnostic challenges and pathogenetic implications	Mahmoud Naguib	Friedrich Loeffler Institute	Germany
09:30 - 09:45	PS25-02	Comparison of the pathogenesis of recent US H5N2 and H7N8 highly pathogenic avian influenza virus isolates in turkeys	Erica Spackman	Sepril, USDA-ARS	United States
09:45 - 10:00	PS25-03	Virulence potential of German low pathogenic H7 avian influenza viruses from 2001 to 2015 in chickens after acquisition of hemagglutinin multibasic cleavage site	El-Sayed Abdelwhab	Federal Research Institute for Animal Health	Germany
10:00 - 10:15	PS25-04	Simultaneous detection of eight subtypes of avian influenza A viruses by multiplex reverse transcription-PCR using a GeXP analyser	Zhixun Xie	Guangxi Veterinary Research Institute	China



## Scientific Programme

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
<b>09:15 - 10:15 Parallel Session: Clinical Case Reports &amp; Key Studies</b>					
<b>Location: Sidlaw Auditorium</b>					
09:15 - 09:30	PS26-01	Hepatic and intestinal abnormalities of undefined origin in layer breeders and commercial layers	Guillermo Zavala	Avian Health International, LLC	United States
09:30 - 09:45	PS26-02	Increased liver tissue iron content in turkeys suffering from hepatic lipidosis syndrome as a result of infection?	Dmytro Radko	Elanco Animal Health GmbH	Germany
09:45 - 10:00	PS26-03	Cases study of peripheral neuropathy in commercial layers	László Körösi	Rhone Vet Kft	Hungary
10:00 - 10:15	PS26-04	Salmonella arizonae natural case and experimental infection in commercial broiler chicks in United States	Tina Yun-Ting Wang	Huvepharma Inc	United States

<b>09:15 - 10:15 Parallel Session: Management/Poultry Welfare</b>					
<b>Location: Fintry Auditorium</b>					
09:15 - 09:30	PS27-01	Keel bone fractures in laying hens in Denmark - prevalence and aspects of the pathogenesis	Jens Peter Christensen	University of Copenhagen	Denmark
09:30 - 09:45	PS27-02	In ovo sex determination in the domestic chicken by near-infrared raman spectroscopy	M-E Krautwald-Junghanns	University Leipzig	Germany
09:45 - 10:00	PS27-03	Scoring biosecurity in European conventional broiler production	Tommy Van Limbergen	Ghent University	Belgium
10:00 - 10:15	PS27-04	A descriptive study of biosecurity practices in foie-gras duck farms in South West of France	Mattias Delpont	National Veterinary College of Toulouse (ENVT)	France

<b>09:15 - 10:15 Parallel Session: Vaccines</b>					
<b>Location: Lomond Suite</b>					
09:15 - 09:30	PS28-01	A toolbox for veterinarians to win the commitment of broiler growers for vaccination against Escherichia coli	Jocelyn Marguerie	Reseau Cristal	France
09:30 - 09:45	PS28-02	In ovo vaccines based on recombinant NetB toxin and montanide IMS adjuvants induced protective immunity against necrotic enteritis in chickens	Heloise Imbault	Seppic SA	France



Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
09:45 - 10:00	PS28-03	Vaccination of broilers with a live Escherichia (E.) coli vaccine leads to a reduction of antibiotic treatments	Stephani Fischer	Zoetis	Germany
10:00 - 10:15	PS28-04	Comparison of gel and spray application of coccidia vaccines	Brian Jordan	The University of Georgia	United States

10:15 - 11:00	<b>Morning Coffee Break / Exhibition</b> Location: Lennox Suite				
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11:00 - 12:00 <b>Parallel Session: Avian Influenza</b> Location: Pentland Auditorium					
11:00 - 11:15	PS29-01	Effective reporting thresholds for early detection of avian influenza outbreaks in layer chickens	Jose L Gonzales	Wageningen Bioveterinary Research	The Netherlands
11:15 - 11:30	PS29-02	Spatial-environmental risk analysis of low pathogenic avian influenza virus infections in different Dutch poultry sectors	Ruth Bouwstra	GD Animal Health	The Netherlands
11:30 - 11:45	PS29-03	Heat inactivation of avian influenza virus in chicken litter as a means to decontaminate poultry houses	Chris Stephens	SEPRL, USDA-ARS	United States
11:45 - 12:00	PS29-04	Nature and quantification of visits of wild (bird) fauna to the free-range facility of a commercial poultry layer farm in The Netherlands in the framework of avian influenza risk	Armin Elbers	Wageningen Bioveterinary Research	The Netherlands

11:00 - 12:00 <b>Parallel Session: Nutrition</b> Location: Fintry Auditorium					
11:00 - 11:15	PS30-01	Effect of dietary supplementation of herbal products on broiler growth performance, gut health and meat quality	Ilias Giannenas	Aristotle University of Thessaloniki	Greece
11:15 - 11:30	PS30-02	Productive performance, immune response and egg quality traits of laying turkeys fed diet incorporated with selenium	Avishek Biswas	ICAR- Central Avian Research Institute	India
11:30 - 11:45	PS30-03	Long term evaluation of performance and carcass composition of coccidiosis vaccinated broilers fed commercial diets with and without salinomycin	Ivan Alvarado	MERCK	United States



## Scientific Programme

Time	Abstract Number	Title	Presenting Author	Organisation/ Institution	Country
11:45 - 12:00	PS30-04	Comparative glomerular filtration rate in five different poultry species by determining the plasma endo- and exo-iohexol clearance	Gunther Antonissen	Ghent University	Belgium

11:00 - 12:00 <b>Parallel Session: Pathology/Diagnostics</b> Location: Sidlaw Auditorium					
11:00 - 11:15	PS31-01	Recombinant fiber proteins enable sensitive and species-specific detection of antibodies against clinically relevant fowl aviadenoviruses (FAdVs) in chickens	Franziska Feichtner	University of Veterinary Medicine	Austria
11:15 - 11:30	PS31-02	Retrospective survey of proventriculitis cases through histopathology surveillance in Great Britain: 2000-2015	Cristina Garcia-Rueda	APHA-Lasswade	United Kingdom
11:30 - 11:45	PS31-03	Clinical and pathological pictures of H5 HPAI in galliforms and waterfowl, France, 2015-2017: a comparative study	Jean-Luc Guerin	National Veterinary College of Toulouse	France
11:45 - 12:00	PS31-04	The development of a respiratory panel qPCR assay combining ILT, ART and IBV or NDV plus AI	Luuk Stoker	BioChek B.V.	The Netherlands

11:00 - 12:00 <b>Parallel Session: Other Viruses</b> Location: Lomond Suite					
11:00 - 11:15	PS32-01	Avian encephalomyelitis cases in 2015 - 2016 in Poland	Kasia Domanska-Blicharz	National Veterinary Research Institute	Poland
11:15 - 11:30	PS32-02	In vivo studies confirm FAdV-1 as the etiological agent of adenoviral gizzard erosions seen in replacement pullets and layer flocks in the UK	Beatrice Grafl	University for Veterinary Medicine Vienna	Austria
11:30 - 11:45	PS32-03	Gizzard erosions in broiler chickens in Sweden 2016 caused by fowl adenovirus, species A (FAdV-A)	Ylva Lindgren	National Veterinary Institute	Sweden
11:45 - 12:00	PS32-04	Fowl aviadenovirus-induced pancreatitis leads to dysmetabolic conditions in broilers	Miguel Matos	University of Veterinary Medicine Vienna	Austria

12:00 - 12:30 <b>WVPA 2017 Closing Ceremony</b> Location: Pentland Auditorium					
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