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WBC

WORLD BUIATRICS CONGRESS

SEPTEMBER 4<sup>TH</sup> TO 8<sup>TH</sup>

MADRID 2022

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PROGRAMME






	SUNDAY SEPTEMBER 4 <sup>TH</sup>	MONDAY SEPTEMBER 5 <sup>TH</sup>	TUESDAY SEPTEMBER 6 <sup>TH</sup>	WEDNESDAY SEPTEMBER 7 <sup>TH</sup>	THURSDAY SEPTEMBER 8 <sup>TH</sup>	
09:00 - 10:00		SHORT COMMUNICATIONS				
10:00 - 10:30		KEY NOTE 1	KEY NOTE 1	KEY NOTE 1	KEY NOTE 1	
10:30 - 11:00		KEY NOTE 2	KEY NOTE 2	KEY NOTE 2	KEY NOTE 2	
11:00 - 11:30		COFFEE BREAK				
11:30 - 12:00		KEY NOTE 3	KEY NOTE 3	KEY NOTE 3	KEY NOTE 3	
12:00 - 12:30		KEY NOTE 4	KEY NOTE 4	KEY NOTE 4	KEY NOTE 4	
12:30 - 13:00		ROUND TABLE	ROUND TABLE	ROUND TABLE	ROUND TABLE	
13:00 - 13:30						
13:30 - 14:00		LUNCH AND COFFEE				
14:00 - 14:30		Documentation Delivery				
14:30 - 15:00						
15:00 - 15:30	Satellite Symposia & Workshops		Satellite Symposia & Workshops	Satellite Symposia & Workshops	Satellite Symposia & Workshops	
15:30 - 16:00						
16:00 - 16:30						
16:30 - 17:00	COFFEE BREAK & POSTER SESSION					
17:00 - 17:30	Opening Ceremony President's Award The Gustav Rosenberger Memorial Fund Student's Award The Ruminant Well-being Awards Student Award	VIP PRESENTATION	VIP PRESENTATION	VIP PRESENTATION	VIP PRESENTATION	
17:30 - 18:00						
18:00 - 18:30						
18:30 - 19:00	Welcome Reception			Conference Dinner	Closing ANEMBE PARTY	
19:00 - 19:30						
19:30 - 20:00						
20:30 - 21:00						
21:00 - 21:30						
21:30 - 22:00						

PARALLEL SESSIONS WITH SHORT COMMUNICATIONS THROUGHOUT THE 4 DAYS




	PLENARY ROOM	MEETING ROOM	MADRID	ROMA	PARIS	LONDRES
Simultaneous translation						
	ANIMAL HEALTH: 09:00-13:30 Chair: Norman Williamson	INTERNAL MEDICINE AND TOXICOLOGY: 09:00-13:30 Chair: Joaquin Ranz	IMMUNOLOGY AND VACCINOLOGY: 09:00-13:30 Chair: Juan Manuel Cainzos	REPRODUCTION IN BEEF CATTLE: 09:00-13:30 Chair: Fernando Criado García	BUFFALOES AND CAMELIDS: 09:00-13:30 Chair: Robert Witma	SMALL RUMIANTS: 09:00-13:30 Chair: Aurora Ortin
09:00-10:00	SHORT PAPERS 01: Animal health	SHORT PAPERS 02: Internal Medicine and Toxicology	SHORT PAPERS 03: Immunology and vaccinology	SHORT PAPERS 04: Reproduction in beef cattle	SHORT PAPERS 05: Buffaloes and camelids	SHORT PAPERS 06: Small ruminants
10:00-10:30	Using precision technology in dairy calves: How do we implement it successfully and use it to predict disease David Renaud	Jejunal hemorrhage syndrome André Desrochers 	Bovine Immune System and the Implications for Disease Resistance Angel Abuelo 	Effect of Estrus Expression and Estradiol Exposure on pregnancy rates in Beef Cattle Gabriel Bo	Development of an alpacas program in Perú Juan Pablo Gutiérrez	Ovine anaplasmosis, an emerging disease in Europe Delia Lacasta
10:30-11:00	Management strategies to prevent uterine diseases in dairy cows Klîbs Galvão	Recent advances in the treatment of calf diarrhea Geof Smith	Transcriptomics to define mechanisms of BRD resistance Amelia R. Woolums	Presynchronization strategies in beef cattle: optimizing hormonal response and fertility to FTAI Alvaro García-Guerra	Assisted reproductive technologies in buffaloes: techniques and outcomes Pietro Baruselli	Responsible use of medicine in sheep flocks - antibiotics, anthelmintics, supplements Fiona Lovatt
11:00-11:30	COFFEE BREAK					
11:30-12:00	Therapeutic options for uterine diseases in dairy cows Klîbs Galvão	Review of flotation tank use for down cows André Desrochers 	Impact of Oxidative Stress on Inflammation and Immunity Angel Abuelo 	Using eCG to increase pregnancy rates in Beef Cattle Gabriel Bo	Diagnostic and surgical approaches in buffaloes in the field (I) Antonio Natale	Respiratory diseases - differential diagnoses and management Delia Lacasta
12:00-12:30	Getting the right balance-managing the animals "health maintenance system" Christopher Chase	BRD Diagnostic and Treatment Approaches in Dairy Calves Geof Smith	mRNA therapy to induce passive immunity Amelia R. Woolums	Doppler Ultrasonography for pregnancy diagnosis: Setup and utilization in FTAI programs Alvaro García Guerra	Diagnostic and surgical approaches in buffaloes in the field (II) Antonio Natale	Sheep farmer-vet engagement-maximising mutual value Fiona Lovatt
12:30-13:00	ROUND TABLE WITH ATTENDEES, MAIN SPEAKERS AND LECTURE COMMUNICATORS					
13:00-13:30						
13:30-15:00	LUNCH TREAT					
15:00-16:30	SIMPOSIUM 1 CEVA The successful management of replacement dairy heifers. Speakers: Claire Wathes, The Royal Veterinary College. Wathes will address the main economical components of rearing dairy heifers and what is the best methods to achieve the highest efficiency from the birth of the calf until first calving. Jose Edouardo Santos, University of Florida. Santos will address the best reproductive strategies to apply in dairy farms in order to achieve optimal performances with replacement heifers. 	ECBHM WORKSHOP Beat Berchtold, Lies Beekhuis and Philippe Camuset 	SIMPOSIUM 5 BOEHRINGER INGELHEIM The Magic of Science The Magic of Colostrum: What Can Calves Learn from Babies? Maria Carmen Collado The Science of Delivery: How to Ensure Calves get the Colostrum they need? Vibeke Fladkjær Nielsen 	REPRODUCTION IN BEEF CATTLE WORKSHOP: The role of the veterinarian in reproductive management programs: Maximizing fertility to FTAI in beef cattle around the globe Gabriel Bo and Alvaro García	REPRODUCTION IN DAIRY CATTLE: Preparturient calving management-a bovine brainstorming workshop John F. Mee, Carola Fischer and Otto Szenci 	SMALL RUMIANTS WORKSHOP: Diagnostic approaches to individual and flock health problems - a case-based interactive workshop, Delia Lacasta, Valentin Pérez and Fiona Lovatt
16:30-17:00	COFFEE BREAK & POSTER SESSION					
17:00-18:30	VIP PRESENTATION. Omnivoros Portal: an opinion and response round table, dismantling myths Chair: Marta E. Alonso Jack Britt, Bernat Vallat, Emilio Gallego Zuazo and Antonio Escribano					

	BERLIN	AMSTERDAM	LA PAZ	MONTEVIDEO	BRATISLAVA
Simultaneous translation					
09:00-11:00	Oral Presentations 01: Reproduction in Dairy Cattle I Chair: <b>Susana Astiz</b>	Oral Presentations 02: Nutrition & Metabolism Diseases I Chair: <b>Diego Martinez del Olmo</b>	Oral Presentations 03: Herd Health Management I Chair: <b>Ana I. de Prado</b>	Oral Presentations 04: Genetics and Breeding I Chair: <b>Francisco Peñagaricano</b>	Oral Presentations 05: Udder Health and Mastitis I Chair: <b>Nuria Roger</b>
11:00-11:30	COFFEE BREAK				
11:30-13:30	Oral Presentations 06: Reproduction in Dairy Cattle II Chair: <b>José Eduardo Santos</b>	Oral Presentations 07: Nutrition & Metabolism Diseases II Chair: <b>Marcelo Guadagnini</b>	Oral Presentations 08: Herd Health Management II Chair: <b>Bart Pardon</b>	Oral Presentations 09: Genetics and Breeding III & Pharmacology Chair: <b>Francisco Peñagaricano</b>	Oral Presentations 10: Udder Health and Mastitis II Chair: <b>Francisco Sesto</b>
13:30-15:00	LUNCH TREAT				
15:00-16:30	Oral Presentations 11: Infectious Diseases I Chair: <b>Carl Christian Gelfert</b>	Oral Presentations 12: Animal Health I Chair: <b>José Luis Ramírez</b>	Oral Presentations 13: Immunology and Vaccines I Chair: <b>Ángel Abuelo</b>	Oral Presentations 14: Public Health, Food Security and Antimicrobial Resistance I Chair: <b>Daniel Zeledón</b>	Oral Presentations 15: Cattle Welfare I Chair: <b>Trevor De Vries</b>
16:30-17:00	COFFEE BREAK & POSTER SESSION				
17:00-18:30	Oral Presentations 16: Reproduction in Dairy Cattle III Chair: <b>Paul Fricke</b>	Oral Presentations 17: Animal Health II Chair: <b>José Luis Ramírez</b>	Oral Presentations 18: Immunology and Vaccines II & Buffaloes and Camelids Chair: <b>Antonio Lucero</b>	Oral Presentations 19: Small Ruminants I Chair: <b>Fiona Lovatt</b>	Oral Presentations 20: Cattle Welfare II Chair: <b>Trevor De Vries</b>

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Simultaneous translation						
	REPRODUCTION IN DAIRY CATTLE: 09:00-13:30 Chair: Gumersindo de la Riera	UDDER HEALTH AND MASTITIS: 09:00-13:30 Chair: Jorge Eseverri	HERD HEALTH MANAGEMENT, SMART FARMING AND ECONOMICS: 09:00-13:30 Chair: Juan Carlos González	LAMENESS: 09:00-13:30 Chair: Daniel Zalduendo	GENETICS AND BREEDING: 09:00-13:30 Chair: Daniel Zeledón	TEACHING AND CONTINUING EDUCATION: 09:00-13:30 Chair: Luis Ángel Quitela
09:00-10:00	SHORT PAPERS 07: Reproduction in dairy cattle	SHORT PAPERS 08: Udder health and mastitits	SHORT PAPERS 09: Herd health management, smart farming and economics	SHORT PAPERS 10: Lameness	SHORT PAPERS 11: Genetics and breeding	SHORT PAPERS 12: Teaching and continuing education
10:00-10:30	Optimizing peripartum health to improve reproduction in dairy cows José Eduardo Santos	How the milking machine influences mastitits Ian Ohnstad	Review of herd dynamics and key performance indicators Ricardo Chebel	Dairy cattle lameness; where does recent research take us? Georgios Oikonomou	What every farm advisor should know about dairy cattle breeding Francisco Peñagaricano	Historical perspective of veterinary medical education in food animal medicine: are we meeting the needs of the producer Carlos Risco
10:30-11:00	The High Fertility Cycle Paul Fricke	Parlour efficiency vs milking efficiency: compatible or conflict? Ronald Erskine	Pre-Weaning replacement heifer housing and management to maximize growth and health Courtney Halbach	Sensible treatment of claw disorders including pain management Jan Shearer	Economic trade-offs between productive life and genetic progress Albert de Vries	Shortages of food animal veterinarians - a global threat Ángel Abuelo 
11:00-11:30	COFFEE BREAK					
11:30-12:00	Mechanisms underlying anovulation and impacts on reproduction in dairy cows José Eduardo Santos	The importance of milking time assessments (observations and not physical measurements) Ian Ohnstad	Health and reproductive management.- Have we come to the point when we can customize health care and reproductive management Ricardo Chebel	Factors affecting claw lesion healing in cattle Jan Shearer	Genomics: the latest revolution in dairy cattle Francisco Peñagaricano	Development of CE programs for veterinarians focused on production medicine Carlos Risco
12:00-12:30	Optimizing use of sexed and beef semen in dairy heifers and lactating dairy cow Paul Fricke	Training milking staff to be engaged milking staff Ronald Erskine	Designing periparturient cow facilities - welfare, health and automation Courtney Halbach	Dairy cattle lameness genetics; can we breed lameness out of our herds? Georgios Oikonomou	Economic optimization of use of beef semen in dairy herds Albert de Vries	Continue education in food animal medicine: does one size fit all? Ángel Abuelo 
12:30-13:30	ROUND TABLE WITH ATTENDEES, MAIN SPEAKERS AND LECTURE COMMUNICATORS					
13:30-15:00	LUNCH TREAT					
15:00-16:30	SIMPOSIUM 2 ZOETIS Mycoplasma bovis a calf Pneumonia pathogen: its role and importance Bart Pardon and Geoffrey Smith 	REPRODUCTION WORKSHOP : Applied epidemiology: how to interpret and use research data in practice, using examples in reproduction Aurora Villarroel	SMART FARMING SEMINAR: Case studies. Troubleshooting design of an automated barn and addressing reproductive inefficiency with automated systems Ricardo Chebel and Courtney Halbach	LAMENESS WORKSHOP: Cattle lameness practical session Jan Shearer and Georgios Oikonomou Sponsored by ANKA	GENETICS AND BREEDING WORKSHOP: How do we use genetic data to improve farm profitability Francisco Peñagaricano and Albert de Vries	CONTINUING EDUCATION SEMINAR: Models of clinical education of bovine medicine Carlos Risco and Ángel Abuelo 
16:30-17:00	COFFEE BREAK & POSTER SESSION					
17:00-18:30	VIP PRESENTATION: Chair: Joaquin Ranz Why do many veterinarians no longer use the clinical examination of ruminants on a regular basis? Walter Baumgartner Evolution of infectious diseases in 50 years Klaus Doll				ECBHM GENERAL ASSEMBLY 	





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Simultaneous translation					
09:00-11:00	Oral Presentations 21: Animal Health III Chair: Kibs Galvao	Oral Presentations 22: Infectious Diseases II Chair: Michael Hassig	Oral Presentations 23: Internal Medicine & Toxicology I Chair: Mireille Meylan	Oral Presentations 24: Infectious Diseases III Chair: María Guelbenzu	Oral Presentations 25: Nutrition & Metabolism Diseases III Chair: Jaime Llana
11:00-11:30	COFFEE BREAK				
11:30-13:30	Oral Presentations 26: Animal Health IV Chair: Kibs Galvao	Oral Presentations 27: Infectious Diseases IV Chair: Michael Hassig	Oral Presentations 28: Internal Medicine & Toxicology II Chair: Menno Holzhauer	Oral Presentations 29: Infectious Diseases V Chair: María Guelbenzu	Oral Presentations 30: Infectious Diseases VI & Small Ruminants II Chair: Fiona Lovatt
13:30-15:00	LUNCH TREAT				
15:00-16:30	Oral Presentations 31: Animal Health V Chair: Juan Vicente González Martin	Oral Presentations 32: Immunology and Vaccines III Chair: Amelia Woolums	Oral Presentations 33: Herd Health Management III Chair: Manuel V. Morales	Oral Presentations 34: Small Ruminants III Chair: Delia Lacasta	Oral Presentations 35: Udder Health and Mastitis III Chair: Ronald Erskine
16:30-17:00	COFFEE BREAK & POSTER SESSION				
17:00-18:30	Oral Presentations 36: Animal Health VI & Herd Health Management IV Chair: José Luis Ramírez	Oral Presentations 37: Immunology and Vaccines IV Chair: Amelia Woolums	Oral Presentations 38: Herd Health Management V Chair: Manuel V. Morales	Oral Presentations 39: Small Ruminants IV Chair: Delia Lacasta	Oral Presentations 40: Udder Health and Mastitis IV Chair: Ronald Erskine

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	NUTRITION AND METABOLIC DISEASES: 09:00-13:30 Chair: Ángel Ávila	INFECTIOUS DISEASES: 09:00-13:30 Chair: Alberto Díez	CATTLE WELFARE: 09:00-13:30 Chair: José Luis Juaristi	FEEDLOT: 09:00-13:30 Chair: Francisco González Rodríguez	DIAGNOSTIC IMAGING: 09:00-13:30 Chair: Manuel Ángel Fernández	SUSTAINABLE CATTLE PRODUCTIVE SYSTEMS: 09:00-13:30 Chair: Juan Manuel Lomillos
09:00-10:00	SHORT PAPERS 13: Nutrition and metabolic diseases	SHORT PAPERS 14: Infectious diseases	SHORT PAPERS 15: Cattle welfare	SHORT PAPERS 16: Feedlot	SHORT PAPERS 17: Diagnostic imaging	SHORT PAPERS 18: Sustainable cattle productive systems
10:00-10:30	Energy balance and body condition, key drivers for a healthy herd Adlai Schuler	Tools for the diagnostic and control of bovine paratuberculosis Joseba Garrido	Social housing of dairy calves: Why, when, and how? Trevor de Vries	Key considerations for antibiotic free beef production Ryan Law	Role of ultrasonography in reproductive management 4.0 Jill Colloton	Sustainability in action - how do we "meat" demand without "milking" the environment? Jude Capper
10:30-11:00	Balancing energy and protein supply across lactation Fernando Díaz Royón	What is new on IBR. Epidemiology and control at the farm level María Guelbenzu	Managing automated milking herds to optimize health and welfare Trevor de Vries	The importance of meat quality assessment and supply chain data management in delivering consumer expectations Ryan Law	The Doppler in field reproductive management: effective resource or pure fantasy? Giovanni Gnemmi 	Feeding the world without devouring it Frank M. Mitloehner
11:00-11:30	COFFEE BREAK					
11:30-12:00	Managing the transition period through protocols. A systems based approach Adlai Schuler	Animal tuberculosis. Looking for the eradication Joseba Garrido	Pain assessment and management in cows and calves (I) Xavier Manteca	BRD in feedlot production - past, present and future Calvin Booker	Use of ultrasound to improve reproductive management in dairy or beef cattle Giovanni Gnemmi 	Cows of the future - challenges and opportunities for sustainable cattle systems Jude Capper
12:00-12:30	Feeding management and its impact in dairy 's financials Fernando Díaz Royón	BVD. Actual situation in Europe María Guelbenzu	Pain assessment and management in cows and calves (II) Xavier Manteca	The use of technology for cattle health management in the feedlot Calvin Booker	Thoracic ultrasonography Sebastien Buckzinski 	Livestock and climate change - Facts and fiction Frank M. Mitloehner
12:30-13:30	ROUND TABLE WITH ATTENDEES, MAIN SPEAKERS AND LECTURE COMMUNICATORS Jack Britt, Alfonso Monge					
13:30-15:00	LUNCH TREAT					
15:00-16:30	SIMPOSIUM 3 ZOETIS Precision Ag comes to dairy: Genomics tools to improve profit, environmental footprint, and cow wellbeing 	UDDER HEALTH WORKSHOP: The milking time assessment - an additional tool in the armoury for a dairy veterinarian Ian Ohnstad and Ronald Erskine	CATTLE WELFARE WORKSHOP: Animal welfare assessment at farm level and its implications for economic sustainability of dairy farms Trevor de Vries and Xavier Manteca	SIMPOSIUM 6 MSD Connected Cattle: The benefits of smart monitoring solutions in veterinary medicine Philippe Houffschmitt, Alexei Castro, Juan Pedro Campillo and Paul Westaway 	DIAGNOSTIC IMAGING WORKSHOP: Extragenital applications of Ultrasonography Sebastien Buczinski, Giovanni Gnemmi and Jill Colloton 	ANEMBE GENERAL ASSEMBLY 
16:30-17:00	COFFEE BREAK & POSTER SESSION					
17:00-18:30	VIP PRESENTATION Chair: Aurora Villarroel Successful dairy farming of the future Jack Britt What does One Health mean in Buiatrics? Juan Lubroth					

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09:00-11:00	Oral Presentations 41: Herd Health Management VI Chair: Courtney Halbach	Oral Presentations 42: Udder Health and Mastitis V Chair: Luis Miguel Che	Oral Presentations 43: Parasitology I Chair: Luis Miguel Ortega	Oral Presentations 44: Lamenees I Chair: Georgios Oikonomou	Oral Presentations 45: Public Health, Food Security and Antimicrobial Resistance II Chair: Robert Atwill
11:00-11:30	COFFEE BREAK				
11:30-13:30	Oral Presentations 46: Herd Health Management VII Chair: Courtney Halbach	Oral Presentations 47: Udder Health and Mastitis VI Chair: Luis Miguel Che	Oral Presentations 48: Small Ruminants V Chair: Peter Windsor	Oral Presentations 49: Lamenees II Chair: Georgios Oikonomou	Oral Presentations 50: Public Health, Food Security and Antimicrobial Resistance III Chair: Robert Atwill
13:30-15:00	LUNCH TREAT				
15:00-16:30	Oral Presentations 51: Infectious Diseases VII Chair: Steven Van Winden		Oral Presentations 53: Reproduction in Dairy Cattle IV & Reproduction in Beef Cows Chair: Tomas Trucco	Oral Presentations 54: Lamenees III Chair: Patrizia Simoes	Oral Presentations 55: Teaching & Continuing Education Chair: Javier Blanco Murcia
16:30-17:00	COFFEE BREAK & POSTER SESSION				
17:00-18:30	Oral Presentations 56: Infectious Diseases VIII Chair: Steven Van Winden	Oral Presentations 57: Udder Health and Mastitis VIII Chair: Jorge Eserverri	Oral Presentations 58: Cattle Welfare III Chair: Tomas Trucco	Oral Presentations 59: Feedlot Chair: Octavio Catalán	Oral Presentations 60: Diagnostic Imaging Chair: Javier Blanco Murcia



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Simultaneous translation						
	SURGERY: 09:00-13:30 Chair: Tomas Trucco	BIOTECHNOLOGY: 09:00-13:30 Chair: Daniel Martínez Bello	PHARMACOLOGY AND THERAPEUTICS: 09:00-13:30 Chair: Marco Aurelio Sánchez	EPIDEMIOLOGY: 09:00-13:30 Chair: Alfonso Lago	PUBLIC HEALTH, FOOD SAFETY AND ANTIMICROBIAL RESISTANCE: 09:00-13:30 Chair: Alberto Ruiz	PARASITISM (ENDO, ECTO, HAMOPARASITISM): 09:00-13:30 Chair: Javier Zabala
09:00-10:00	SHORT PAPERS 19: Surgery	SHORT PAPERS 20: Biotechnology	SHORT PAPERS 21: Pharmacology and therapeutics	SHORT PAPERS 22: Epidemiology	SHORT PAPERS 23: Public health, food safety and antimicrobial resistance	SHORT PAPERS 24: Parasitism (endo, ecto, hamoparasitism)
10:00-10:30	C - section Sylvain Nichols	Simplified superstimulation programs for in vivo and in vitro embryo production in cattle Gabriel Bo	Antimicrobial susceptibility testing and clinical applications in cattle Keith DeDonder	Epidemiology of bovine mastitis on the modern dairy farm Ynte Schukken	Vulnerability of rural wells and organic produce to multiple drug resistance (MDR) bacteria from dairy cattle manure Rob Atwill	What 's new in bovine neosporosis? Luis Miguel Ortega
10:30-11:00	Basic intestinal surgery André Desrochers 	Factors affecting oocyte quality for embryo production in cattle Pietro Baruselli	Defining antimicrobial efficacy: an investigation of treatment versus negative controls in bovine respiratory disease Keith DeDonder	Molecular epidemiology of mastitis: evidence versus paradigm Ruth Zadoks	Good agricultural practices to minimize environmental and waterborne contamination of antimicrobial resistance (AMR) bacteria from cattle manure Rob Atwill	Piroplasmosis of cattle Alessandra Torina
11:00-11:30	COFFEE BREAK					
11:30-12:00	Distal limb fracture and pin casting Sylvain Nichols	Factors affecting pregnancy rates in beef embryo recipients Gabriel Bo	Microbiota-based strategies as an alternative to antimicrobials Juan Miguel Rodríguez	Epidemiology of infectious disease on dairy farms Ynte Schukken	Current Situation of Antibiotic Resistance in Human Health and Future Perspectives Rosa del Campo	Best-bet integrated control strategies for managing trypanosomosis and trypanocidal drug resistance in African village cattle populations Peter H. Clausen
12:00-12:30	Treatment principles of septic arthritis André Desrochers 	Improving fertility in dairy herds using in vivo and in vitro produced embryos Pietro Baruselli		Beyond mastitis: molecular epidemiology insights into transmission and control of bacterial, parasitic and viral diseases of cattle Ruth Zadocks		Venereal diseases in beef cattle: and old problem that needs new approaches Luis Miguel Ortega
12:30-13:30	ROUND TABLE WITH ATTENDEES, MAIN SPEAKERS AND LECTURE COMMUNICATORS					
13:30-15:00	LUNCH TREAT					
15:00-15:30	NUTRITION AND BIOTECHNOLOGY WORKSHOP: Assesment of Fatty acid Profile in milk Débora Santschi and Ramiro Fouz	BIOTECHNOLOGY WORKSHOP: In vivo and in vitro production of embryos: competing or complementary techniques? Gabriel Bo and Pietro Baruselli	ANIMAL HEALTH WORKSHOP Managing dairy calf health: New insights and back to the basics Christopher C.L Chase and Dave Renaud	EPIDEMIOLOGY WORKSHOP: Use of rapid culture systems and algorithms to guide the treatment of clinical mastitis cases and at dry off Alfonso Lago	SURGERY WORKSHOP: What is your diagnosis on lameness? Sylvain Nichols and André Desrochers 	Application of Systems Thinking Discipline in Beef Cattle Veterinary Medicine. Dale Grotelueschen, John Groves, Bill Prokop and Brian Vander Ley
15:30-16:00						
16:00-16:30						
16:30-17:00	COFFEE BREAK & POSTER SESSION					
17:00-17:30	CLOSING CEREMONY Rafael Laguens, Luis Alberto Calvo, Felipe Vilas					
17:30-18:30	PRACTICE TIPS Chair: Aurora Villarroel Jan Pol Resolution of dystocia with mechanical assistance Giorgio Murai The Easy Calving Loop Aurora Villarroel Assist device for the Prevention of peritonitis Franco Veterinarios Easy Lavage Wolfgang Hasseler Fluid therapy in calves Juan Carlos González Use of the force of gravity in assisted calvings Antonio Carbajo Miguel Corchado					

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09:00-11:00	Oral Presentations 61: Infectious Diseases IX <b>Chair: Joseba Garrido</b>	Oral Presentations 62: Cattle Welfare IV <b>Chair: Celia Bartolomé</b>	Oral Presentations 63: Sustainable Cattle Productive Systems <b>Chair: Juan Pérez Salas</b>	Oral Presentations 64: Immunology and Vaccines V <b>Chair: Alicia Román Trufero</b>
11:00-11,30	COFFEE BREAK			
11:30-13:30	Oral Presentations 65: Infectious Diseases X <b>Chair: Joseba Garrido</b>	Oral Presentations 66: Cattle Welfare V <b>Chair: Celia Bartolomé</b>	Oral Presentations 67: Parasitology II & Epidemiology <b>Chair: Juan Pérez Salas</b>	Oral Presentations 68: Immunology and Vaccines VI <b>Chair: Alicia Román Trufero</b>
13:30-15:00	LUNCH TREAT			
16:30-17:00	COFFEE BREAK & POSTER SESSION			