

Wednesday, October 28 th			
9.00Arrival and registration			
Auditorium 10.00 - 11.00Keynote Speakers - Advances in Genetics Chairs: Alfredo Pauciullo and Pietro Baruselli			
10.00 - 10.30	KN-1	Stefano Biffani	Introducing Genomics in Buffalo Breeding: From Enabling Technologies to Global Opportunities
10.30 - 11.00	KN-2	Low Lloyd	1000 Buffalo Genomes Project Phase 2
Tritone 10.00 - 11.00Keynote Speakers - Reproduction and reproductive biotechnologies Chairs: Bianca Gasparrini and Serhat Alkan			
10.00 - 10.30	KN-3	Juan Carlos Gutierrez	Reproductive Biotechnologies in Water Buffaloes under Tropical Conditions in Venezuela: Current Advances and Biological and Technical Challenges
10.30 - 11.00	KN-4	Moustafa Fadel	Actual Technological Status and Future Reproductive Challenges in Egyptian Buffalo
Capri 9.00 - 11.00IZSM Conference Chairs: Giuseppe Iovane and Giorgio Varisco			
9.00 - 9.30	KN-5	Muhammad Ijaz	Antimicrobial resistance in buffalo mastitis pathogens: Current status and drug repurposing strategies
9.30 - 10.00	KN-6	Flavio Sacchini	Efficacy of calfhood RB51 vaccination against Brucella abortus challenge in pregnant buffaloes years later
10.00 - 10.30	KN-7	Giovanni Loris Alborali	Antimicrobial stewardship and integrated approach in livestock: the Italian strategy reducing AMU
10.30 - 11.00	KN-8	Domenico Vecchio	Harmonizing Passive Surveillance and Early Detection Across the Italian IIZZSS Network: A Diagnostic Appropriateness Model for principal Water Buffalo Syndromes
11.00 - 11.30Coffee break and Poster Session			
Auditorium 11.30 - 13.00Genomic tools and genomic selection in buffalo Chairs: Stefano Biffani and Low Lloyd			
11.30 - 11.42	OC-1	Yuri Gombia	Selecting for meat production in Italian Mediterranean Buffalo (IMB)
11.42 - 11.54	OC-2	Alfredo Pauciullo	Only You-psilon: an alternative strategy to sequence the Y chromosome alone
11.54 - 12.06	OC-3	Mayra Gómez	A Cross-Validated framework for STR imputation from SNPs and its impact on Parentage Assignment in Italian Mediterranean Buffalo
12.06 - 12.18	OC-4	Nileshkumar Nayee	Genomic Selection of buffaloes in small holder conditions
12.18 - 12.30	OC-5	Qingyou Liu	Genome-Wide Association Study and Genomic Selection for Important Economic Traits in Buffalo
12.30 - 12.42	OC-6	Medhat Saleh	Genomic landscape of selection signatures in three Eastern European buffalo breeds
12.42 - 12.54	OC-7	Marika Di Civita	Multi-omics insights into heat stress responses in the Mediterranean Buffalo.
Capri 11.30 - 13.00Diagnostics, Biomarkers and Infectious Diseases Chairs: Loredana Baldi and Domenico Vecchio			
11.30 - 11.45	OC-8	María Fabiana Cipolini Galarza	Performance of the Intradermal Test and Molecular Characterization of Mycobacterium bovis in Water Buffaloes (Bubalus bubalis) from Corrientes, Argentina
11.45 - 12.00	OC-9	Giorgia Borriello	Water Buffalo blood biobank as a supporting tool for the control of brucellosis
12.00 - 12.15	OC-10	Yasmine Dadi	Extracellular vesicle miRNA changes during experimental infection with Bubaline alphaherpesvirus 1 (BuAHV-1) in water buffalo
12.15 - 12.30	OC-11	Juan Pablo Uzcátegui-Varela	Dynamics of total serum immunoglobulin E (IgE) in buffalo herds (Bubalus bubalis) adapted to the American tropic, and its role as a biomarker of physiological stress during weaning
12.30 - 12.45	OC-12	Antonio Bosco	Development of an in vitro repellent bioassay to evaluate the efficacy of wood vinegar against the sucking lice Haematopinus tuberculatus

12.45 - 13.00	OC-13	Maria Paola Maurelli	<i>Achieving helminth-free status in water buffalo farms through long-term surveillance</i>
<u>Tritone</u> Advanced Reproductive Technologies, Embryos and Male Fertility <i>Chairs: Juan Carlos Gutierrez and Moustafa Fadel</i>			
11.30 - 11.45	OC-14	Danilda Hufana-Duran	<i>Ovarian Response and Embryo Quality in Riverine Buffaloes Treated with a Wagyu Cattle–Based Superovulation Protocol</i>
11.45 - 12.00	OC-15	Luca Masiello	<i>Association of the uterine microbiome with fertility in buffalo</i>
12.00 - 12.15	OC-16	Valentina Longobardi	<i>Uptake of nanoparticles by buffalo spermatozoa: potential implications for male fertility</i>
12.15 - 12.30	OC-17	Pedro Nacib Jorge Neto	<i>Predictive Andrology in River Buffaloes: Retrospective Heat Stress Analysis to Forecast Semen Cryotolerance</i>
12.30 - 12.45	OC-18	Pedro Nacib Jorge Neto	<i>A Novel Weighted Cryopreservation Resistance Index (CRI) for Predicting Post-Thaw Semen Viability in Water Buffaloes</i>
12.45 - 13.00	OC-19	Deborah Jessica Mainardi	<i>Precision de-seasonalization in buffalo herds: a farm-specific production strategy to enhance farm competitiveness</i>
13.00 - 14.00 <i>Lunch</i>			
Auditorium Plenary Round table <i>Chairs: Giuseppe Campanile and Angela Salzano</i>			
14.00 - 14.30	PL-1	Marialuisa Balestieri	<i>Buffalo Milk as a Functional Shield for Metabolic Health and Defense Against Micro- and Nanoplastics</i>
14.30 - 15.00	PL-2	Gianluca Neglia	<i>Strategies to enhance the functional profile of buffalo milk through innovative management and Precision Livestock Farming techniques</i>
15.00 - 15.30	PL-3	Giovanni Sarnelli	<i>Buffalo Dairy Products as Functional Foods: From Nutritional Value to Human Health</i>
15.30 - 16.00 <i>Coffee break and Poster Session</i>			
Auditorium Opening Ceremony <i>Chairs: Giuseppe Campanile and Angela Salzano</i> Welcome Address by the Chair of the Organizing Committee Institutional Addresses: Roberto Fico , President of the Campania Region Nicola Bianco , Vice-Rector, University of Naples Federico II Gaetano Manfredi , Mayor of the Metropolitan City of Naples Domenico Raimondo , President of the Consortium for the Protection of Mozzarella di Bufala Campana PDO Giuseppe Iovane , Director, Istituto Zooprofilattico Sperimentale del Mezzogiorno (IZSM) Maria Carmela Serluca , Councillor for Agriculture, Campania Region Antonio Limone , Director, ASL Caserta Tribute to Professors Giovanni de Franciscis and Luigi Zicarelli			
16.00 - 19.00			
19.00 - 21.00 <i>Welcome Cocktail</i>			

Thursday, October 29 th			
Auditorium 09.00 - 10.00 Keynote Speakers - Nutrition and feeding Chairs: Raffaele Marrone and Pietro Baruselli			
9.00 - 9.30	KN-9	Octavio Bernardes	From gourmet to functional: alternative dairy buffalo products addressing global consumer demands
9.30 - 10.00	KN-10	Sebastiana Failla	Buffalo Meat Through an Integrated Species Perspective: Functional Molecules, Biochemical Transformations and Nutraceutical Potential
Tritone 9.00 - 10.00 Keynote Speakers - Meat, milk and dairy products Chairs: Gianluca Neglia and Felicia Masucci			
9.00 - 9.30	KN-11	Michael J D'Occhio	Nutrition and metabolic condition during critical windows for reproductive success
9.30 - 10.00	KN-12	Federico Infascelli	The ‘One Nutrition’ approach for buffalo feeding
Capri DeLaval 9.00 - 10.00			
Dott. Martino Lorusso, Market Solution Manager di DeLaval Italia		From Milk to Management: Automation, Efficiency, and Welfare in Modern Buffalo Dairy Farming	
Auditorium 10.00 - 11.00 Nutrition, Feeding Strategies and Metabolic Health in Buffaloes Chairs: Michael D'Occhio and Federico Infascelli			
10.00 - 10.15	OC-20	Felicia Masucci	Influence of forage management on milk and buffalo mozzarella quality
10.15 - 10.30	OC-21	Giuseppe Conte	Mammary lipid metabolism in buffalo compared with other ruminants: a multivariate factor analysis of milk fatty acid profiles
10.30 - 10.45	OC-22	Pencho Penchev	Serum biochemical parameters, antioxidant capacity markers, and lysosomal enzyme activities in peri-weaned buffalo calves supplemented with Tulsi (holy basil) extract
10.45 - 11.00	OC-23	Carlos Santiago Escobar Restrepo	Harnessing native ruminal bacteria to enhance fiber digestion, modulate volatile fatty acids, and reduce methane in tropical water buffalo
Capri 10.00 - 11.00 Quality and Characterization of Buffalo Animal Products Chairs: Angelo Citro and Otavio Bernardes			
10.00 - 10.15	OC-24	Patrizia Saturno	Advancing the Characterization of Carcass and Meat Quality Traits of Water Buffalo (Bubalus bubalis) under Philippine Conditions
10.15 - 10.30	OC-25	Valeria Vuoso	Antibiotic Resistance Profiling of Lactobacillus Strains Isolated from Buffalo Milk
10.30 - 10.45	OC-26	Martina Dorigo	Variation in composition of bulk tank milk in Italian buffalo herds
10.45 - 11.00	OC-27	Loriana Casalino	From Feeding Systems to Food Quality: Assessment of Buffalo Cheeses (Mozzarella, Scamorza, and Caciocavallo)
Tritone 10.00 - 11.00 Reproductive Management and Fertility Chairs: Bianca Gasparrini and Jianghua Shang			
10.00 - 10.12	OC-28	Muhammad Usman Mehmood	Enhancing reproductive efficiency: A comparative evaluation of Ovsynch and Double Ovsynch protocols on estrus synchronization and conception rates in Nili-Ravi buffalo
10.12 - 10.24	OC-29	Jose Luis Konrad	Use of two different sources of chorionic gonadotropin in fixed-time artificial insemination protocols in water buffalo (Bubalus bubalis)
10.24 - 10.36	OC-30	Cláudio Coutinho Bartolomeu	Functional evaluation of the corpus luteum by Doppler ultrasonography in buffaloes treated with PGF ₂ α at the time of artificial insemination
10.36 - 10.48	OC-31	Carlos Andres Hernández Correa	Effect of injectable progesterone, GnRH, or flunixin meglumine on maternal pregnancy recognition in buffalo recipients of in vitro embryos in Colombia.
10.48 - 11.00	OC-32	Cláudio Coutinho Bartolomeu	Endometrium/Myometrium ratio as an early non-pregnancy diagnosis in dairy buffalos
11.00 - 11.30 Coffee break and Poster Session			
Auditorium 11.30 - 13.00 Precision Management, Milking and Sustainable Buffalo Farming Chairs: Gianluca Neglia and Roberta Matera			

11.30 - 11.45	OC-33	Xavier David	<u>Illumina</u> <i>AgriGenomics innovations for a large-scale adoption of genomics in Buffalo</i>
11.45 - 12.00	OC-34	Fabio Zicarelli	<i>Modern Strategies for Buffalo Farming: From Smart Monitoring to Smart Feeding</i>
12.00 - 12.15	OC-35	Matteo Santinello	<i>Bimodal milk flow patterns and their effects on milk emission, milking duration, and milk quality in Italian Mediterranean buffaloes</i>
12.15 - 12.30	OC-36	Rosa Luisa Ambrosio	<i>A bio-based approach to udder health: Antimicrobial peptides as next-generation sanitizers in buffalo milking systems</i>
12.30 - 12.45	OC-37	Lucia Trapanese	<i>Analysis of lactation curve shape by season and age at first calving</i>
12.45 - 13.00	OC-38	Eric Palacpac	<i>An ICT-Enabled School-on-the-Air Program for Dairy Buffalo Production: Effects on Farmer Knowledge, Attitudes, and Practices in the Philippines</i>
11.30 - 13.00 <u>Capri</u> Economic Sustainability, Value Creation and Governance <i>Chairs: Antonio Borghese and Antonella Chiariotti</i>			
11.30 - 11.45	OC-39	Zadieshar Sanchez	<i>The Economic Viability of Dairy Buffalo Farming Businesses: An Ex-Ante Analysis</i>
11.45 - 12.00	OC-40	Navarat Boonpila	<i>Upgrading Thai Swamp Buffalo: A Premium Branding Strategy and Global Market Positioning.</i>
12.00 - 12.15	OC-41	Liza Battad	<i>The Impact of Social Entrepreneurship on Inclusive Growth in the Philippine Carabao Sector</i>
12.15 - 12.30	OC-42	Alvin David	<i>Effect of the Implementation of Provincial Ordinance 170-2013: Ordinance Regulating the Slaughter of Female Carabaos in the Province of Pangasinan, Philippines</i>
12.30 - 12.45	OC-43	Murat Kanbur	<i>Buffalo sector in Kayseri region of Türkiye: challenges and strategic solutions</i>
12.45 - 13.00	OC-44	Carlos Andres Hernández Correa	<i>Beyond production: actor articulation in a tropical livestock system</i>
11.30 - 13.00 <u>Tritone</u> Mastitis, Antimicrobial Resistance, Biosecurity and Welfare <i>Chair: Pasquale De Palo and Olimpia Barbato</i>			
11.30 - 11.45	OC-45	Shailesh Ingole	<i>Diagnostic Potential of Milk-Derived Exosomal miRNAs for Early Detection of Subclinical Mastitis to Enhance Production and Buffalo Herd Health</i>
11.45 - 12.00	OC-46	Maria Chiara Alterisio	<i>Evaluation of the Effects of Ozone Therapy on Mammary Inflammatory Processes in Mediterranean Buffaloes (Bubalus bubalis)</i>
12.00 - 12.15	OC-47	Jiakang He	<i>Mastitis Control Strategy in Dairy Buffaloes in Guangxi, China's "Hometown of Buffaloes": From Pathogen Tracing and Virulence Dissection to Natural Product-Based Intervention</i>
12.15 - 12.30	OC-48	Martina Penati	<i>Characterization of Extended-Spectrum β-Lactamase-Producing Escherichia coli from Feces of Italian Mediterranean Buffalo</i>
12.30 - 12.45	OC-49	Valentina Iovane	<i>Seasonal Dynamics of Bacterial Contamination and Antimicrobial Resistance in Buffalo Milking Parlors of the Campania Region, Italy: A One-Year Surveillance Study</i>
12.45 - 13.00	OC-50	Domenico Vecchio	<i>Are improved biosecurity and welfare levels sufficient drivers to reduce antimicrobial use in ruminants? The case study of Italian buffalo farms</i>
13.00 - 14.00 Lunch			
14.00 - 15.30 <u>Auditorium</u> Dairy Processing, Innovation and Food Safety <i>Chair: Marcello Mele and Pencho Penchev</i>			
14.00 - 14.15	OC-51	Hong Lan	<i>Analysis of flavor and metabolites changes during production of Ginger milk curd and Double-Layer Steamed Milk Custard from buffalo milk</i>
14.15 - 14.30	OC-52	Marika Di Paolo	<i>Formulation and Evaluation of Homogenized Buffalo Ricotta with Native Probiotic Protective Cultures</i>
14.30 - 14.45	OC-53	Francesca Garofalo	<i>Buffalo milk yogurt produced in the province of Salerno: evaluation of chemical-physical, nutritional and organoleptic characteristics</i>
14.45 - 15.00	OC-54	Roberto Condoleo	<i>Modelling the Risk of listeriosis associated with Water Buffalo Mozzarella consumption: A Quantitative Approach</i>
15.00 - 15.15	OC-55	Agata Campione	<i>Brucella ovis as a model to study the survival of Brucella abortus/melitensis during the manufacture of buffalo mozzarella cheese</i>
15.15 - 15.30	OC-56	Giovanni Niero	<i>Characterization of detailed protein composition in buffalo milk</i>

Capri Smart Monitoring and Data-Driven Buffalo Farming Chairs: Matteo Santinello and Lucia Trapanese			
14.00 - 14.15	OC-57	Chiara Evangelista	Smart monitoring of Mediterranean dairy buffaloes through reticulo-rumen bolus technology
14.15 - 14.30	OC-58	Roberta Matera	Rumination time in Mediterranean Buffalos: Using Cowtech® sensors to monitor rumination
14.30 - 14.45	OC-59	Miriam Iacurto	Morphological evaluation of growing buffalo calves by Image Analysis
14.45 - 15.00	OC-60	Rittichai Pilachai	Fractal Dimension Analysis of Salivary Crystallization Patterns for Estrus Detection in Estrus-Synchronized Swamp Buffaloes (Bubalus bubalis).
15.00 - 15.15	OC-61	Carmelo Cavallo	Methane Footprint and Productive Performance of Italian Mediterranean Buffalo
15.15 - 15.30	OC-62	Amarpreet Pannu	Successful treatment of snake bite in Buffalo Bull
Tritone Genetic improvement of production, adaptation and functional traits Chairs: Aixin Liang and Ioana Nicolae			
14.00 - 14.12	OC-63	Yi Zhang	Genomic identification of key genes underlying milk production and morphology in water buffalo
14.12 - 14.24	OC-64	Nicolò Pietro Paolo Macciotta	Pedigree and genomic inbreeding and their relationship with production traits
14.24 - 14.36	OC-65	Jesus Berdugo	Genetic evaluation of weaning weight in buffalo under conditions of limited information: a comparison of linear and mixed models in Colombia
14.36 - 14.48	OC-66	Marco Milanesi	A new SNP array to improve buffalo knowledge and performance
14.48 - 15.00	OC-67	Excel Rio Maylem-Abriam	A novel probe-based genotyping method for thermotolerant gene- HSP70 in water buffaloes in the Philippines and its effect on milk production
15.00 - 15.12	OC-68	Zhipeng Li	Screening of Key Candidate Molecules for Buffalo Lactation Traits and Regulatory Mechanism of ESR1 Enhancer E3 Binding HMGA1 in Mammary Epithelial Cells
15.12 - 15.24	OC-69	Salvatore Fioriniello	Comparison of ruminal wall transcriptomic profiles between dairy cattles and buffaloes
15.24 - 15.36	OC-70	Vincenzo Landi	From sires to Genetic Diversity: how bull exchange networks influence inbreeding patterns in Italian Mediterranean Buffalo
15.30 - 16.00Coffee break and Poster Session			
Auditorium WBC Assembly Chairs: Giuseppe Campanile and Antonio Borghese			
16.00 - 19.00 Address by the IBF Secretary and Recognition of Delegations KN - 13 Antonio Borghese "Buffalo in the world: sustainability, management, products, economy trends" IBF General Assembly: Presentation of an Award to the President of the Next Congress			
19.00 - 21.00Gala Dinner			

Friday, October 30 th			
9.00 - 10.00			
Auditorium Trade Associations Chair: Elisabetta Guidobaldi - ANSA journalist			
9.00 - 9.15	Address by Chiara Corbo , Director of the Smart AgriFood Observatory (Digital Innovation Observatories) - Polytechnic University of Milan and University of Brescia		
9.15 - 10.00	Round Table - Session 1 History, Economy and Transformation: From the North–South Divide to the Changing Agri-Food Landscape		
	Ettore Prandini, National President, Coldiretti Lazzaro Iemma, National President of the Buffalo Breeding Federation, Confagricoltura Antonio Auricchio, Vice-President, Assolatte Davide Letizia, Buffalo Farmer and Vice-President, Consortium for the Protection of Mozzarella di Bufala Campana PDO Mario Emilio Cichetti, Director, Consortium for the Protection of Prosciutto di San Daniele Marco Perocchi, Crédit Agricole Italia, Head of Corporate Banking		
10.00 – 11.00			
Auditorium PDO: a tool for enhancing raw materials' value Chair: Elisabetta Guidobaldi - ANSA journalist			
10.00 – 11.00	Round Table - Session 2 Innovation and Internationalisation: The Quality Model		
	Regina Corradini D’Arienzo, Director General, SIMEST Riccardo Deserti, Director, Parmigiano Reggiano PDO Consortium Pier Maria Saccani, Director, Consortium for the Protection of Mozzarella di Bufala Campana PDO Jaime Castaneda, Vice-President, National Milk Producers Federation Enrico De Micheli, Chief Executive Officer, RINA Agrifood TBC, Confcooperative representative		
11.00 - 11.30			
Coffee break and Poster Session			
11.30 - 13.00			
Auditorium Buffalo Production, Environment and Conservation Chairs: Alessia Lombardi and Angela Salzano			
11.30 - 11.42	OC-71	Duston Larsen	Water buffalo as a non-lethal defense strategy for jaguar conservation in productive ranching landscapes
11.42 - 11.54	OC-72	Gerardo Barboza	Water buffaloes and wetlands: harmony between production and conservation
11.54 - 12.06	OC-73	Antonio Paparella	Balancing Compliance and Sustainability in Livestock Systems: A Biogas-Based Solution for Soil and Water Governance
12.06 - 12.18	OC-74	Carlos Alberto Calles Navas	Grazing dynamics in floodplains and their impact on the productive health of the water buffalo (<i>Bubalus bubalis</i>)
12.18 - 12.30	OC-75	Libertado Cruz	Challenges on Sustainability of Swamp Type Buffaloes
12.30 - 12.42	OC-76	Ernesto Brown	The water buffalo in the regeneration of tropical soils in Mexico
12.42 - 12.54	OC-77	Alberto Stanislao Atzori	System dynamics modelling of sustainability in a tropical buffalo dairy system in Colombia