Wednesday, October 28th

8.30		**Arrival and registration**	
10.00 - 11.00		**Auditorium** **Keynote 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*
10.00 - 11.00		**Tritone** **Keynote 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*
9.00 - 11.00		**Capri** **IZSM 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 and Luigi Bertocchi	*Antimicrobial stewardship and integrated approach in livestock: the Italian stratecy 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 - 11.30		***Coffee break and Poster Session***	
11.30 - 13.00		**Auditorium** **Genomic 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	Neyrouz Letaief	*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.*
11.30 - 13.00		**Capri** **Diagnostics, 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	*Achieving helminth-free status in water buffalo farms through long-term surveillance*
11.30 - 13.00			**Tritone** **Advanced Reproductive Technologies, Embryos and Male Fertility** *Chairs: Juan Carlos Gutierrez and Moustafa Fadel*
11.30 - 11.45	OC-14	Pedro Nacib Jorge Neto	*Predictive Andrology in River Buffaloes: Retrospective Heat Stress Analysis to Forecast Semen Cryotolerance*
11.45 - 12.00	OC-15	Danilda Hufana-Duran	*Ovarian Response and Embryo Quality in Riverine Buffaloes Treated with a Wagyu Cattle–Based Superovulation Protocol*
12.00 - 12.15	OC-16	Michal Kosior	*Association of the uterine microbiome with fertility in buffalo*
12.15 - 12.30	OC-17	Valentina Longobardi	*Uptake of nanoparticles by buffalo spermatozoa: potential implications for male fertility*
12.30 - 12.45	OC-18	Deborah Jessica Mainardi	*Precision de-seasonalization in buffalo herds: a farm-specific production strategy to enhance farm competitiveness*
12.45 - 13.00	OC-19	Pedro Nacib Jorge Neto	*A Novel Weighted Cryopreservation Resistance Index (CRI) for Predicting Post-Thaw Semen Viability in Water Buffaloes*
13.00 - 14.00			***Lunch***
14.00 - 15.30			**Auditorium** **Plenary Round table** *Chairs: Giuseppe Campanile and Angela Salzano*
14.00 - 14.30	PL-1	Marialuisa Balestrieri	*Buffalo Milk as a Functional Shield for Metabolic Health and Defense Against Micro- and Nanoplastics*
14.30 - 15.00	PL-2	Gianluca Neglia	*Strategies to enhance the functional profile of buffalo milk through innovative management and Precision Livestock Farming techniques*
15.00 - 15.30	PL-3	Giovanni Sarnelli	*Buffalo Dairy Products as Functional Foods: From Nutritional Value to Human Health*
15.30 - 16.00			***Coffee break and Poster Session***
16.00 - 19.00			**Auditorium** **Opening Ceremony** *Chairs: Giuseppe Campanile and Angela Salzano* **Institutional Addresses:** **Giuseppe Campanile,** President of the International Buffalo Federation (IBF) **Corrado Fattorusso,** Mayor of Sorrento **Domenico Raimondo,** President of the Consortium for the Protection of Mozzarella di Bufala Campana PDO **Carmen Iemma,** Buffalo breeder and board member of the Consortium for the Protection of Mozzarella di Bufala Campana PDO **Giuseppe Iovane,** Director, Istituto Zooprofilattico Sperimentale del Mezzogiorno (IZSM) **Antonio Limone,** Director, ASL Caserta **Matteo Lorito,** President of Agritech and Vice-President of ANVUR **Nicola Bianco,** Vice-Rector, University of Naples Federico II **Gaetano Manfredi,** Mayor of the Metropolitan City of Naples – *Video Message* **Maria Carmela Serluca,** Councillor for Agriculture, Campania Region ***Tribute to Professors Giovanni de Franciscis and Luigi Zicarelli*** **Roberto Fico,** President of the Campania Region
19.00 - 21.00			***Welcome Cocktail***

Thursday, October 29th

09.00 - 10.00			**Auditorium** **Keynote Speakers - Meat, milk and dairy products** *Chairs: Raffaele Marrone and Pietro Baruselli*
9.00 - 9.30	KN-9	Otavio 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*
9.00 - 10.00			**Tritone** **Keynote Speakers - Nutrition and feeding** *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*
9.00 - 10.00			**Capri** **DeLaval**
	Dott. Martino Lorusso, Market Solution Manager di DeLaval Italia		*From Milk to Management: Automation, Efficiency, and Welfare in Modern Buffalo Dairy Farming*
10.00 - 11.00			**Auditorium** **Nutrition, Feeding Strategies and Metabolic Health in Buffaloes** *Chairs: Michael D'Occhio and Federico Infascelli*
10.00 - 10.15	OC-20	Grazia Scalera	*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*
10.00 - 11.00			**Capri** **Quality and Characterization of Buffalo Animal Products** *Chairs: Angelo Citro and Rosa Luisa Ambrosio*
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)*
10.00 - 11.00			**Tritone** **Reproductive Management and Fertility** *Chairs: Bianca Gasparrini and Jianghua Shang*
10.00 - 10.12	OC-28	Cláudio Coutinho Bartolomeu	*Functional evaluation of the corpus luteum by Doppler ultrasonography in buffaloes treated with $PGF_2\alpha$ at the time of artificial insemination*
10.12 - 10.24	OC-29	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*
10.24 - 10.36	OC-30	Jose Luis Konrad	*Use of two different sources of chorionic gonadotropin in fixed-time artificial insemination protocols in water buffalo (Bubalus bubalis)*
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***

11.30 - 13.00	**Auditorium** **Precision Management, Milking and Sustainable Buffalo Farming** *Chairs: Gianluca Neglia and Roberta Matera*		
11.30 - 11.45	OC-33	Xavier David	Illumina *AgriGenomics innovations for a large-scale adoption of genomics in Buffalo*
11.45 - 12.00	OC-34	Fabio Zicarelli	*Modern Strategies for Buffalo Farming: From Smart Monitoring to Smart Feeding*
12.00 - 12.15	OC-35	Matteo Santinello	*Bimodal milk flow patterns and their effects on milk emission, milking duration, and milk quality in Italian Mediterranean buffaloes*
12.15 - 12.30	OC-36	Rosa Luisa Ambrosio	*A bio-based approach to udder health: Antimicrobial peptides as next-generation sanitizers in buffalo milking systems*
12.30 - 12.45	OC-37	Lucia Trapanese	*Analysis of lactation curve shape by season and age at first calving*
12.45 - 13.00	OC-38	Eric Palacpac	*An ICT-Enabled School-on-the-Air Program for Dairy Buffalo Production: Effects on Farmer Knowledge, Attitudes, and Practices in the Philippines*
11.30 - 13.00	**Capri** **Economic Sustainability, Value Creation and Governance** *Chairs: Antonio Borghese and Antonella Chiariotti*		
11.30 - 11.45	OC-39	Zadieshar Sanchez	*The Economic Viability of Dairy Buffalo Farming Businesses: An Ex-Ante Analysis*
11.45 - 12.00	OC-40	Navarat Boonpila	*Upgrading Thai Swamp Buffalo: A Premium Branding Strategy and Global Market Positioning.*
12.00 - 12.15	OC-41	Liza Battad	*The Impact of Social Entrepreneurship on Inclusive Growth in the Philippine Carabao Sector*
12.15 - 12.30	OC-42	Alvin David	*Effect of the Implementation of Provincial Ordinance170-2013: Ordinance Regulating the Slaughter of Female Carabaos in the Province of Pangasinan, Philippines*
12.30 - 12.45	OC-43	Murat Kanbur	*Buffalo sector in Kayseri region of Türkiye: challenges and strategic solutions*
12.45 - 13.00	OC-44	Carlos Andres Hernández Correa	*Beyond production: actor articulation in a tropical livestock system*
11.30 - 13.00	**Tritone** **Mastitis, Antimicrobial Resistance, Biosecurity and Welfare** *Chairs: Pasquale De Palo and Olimpia Barbato*		
11.30 - 11.45	OC-45	Shailesh Ingole	*Diagnostic Potential of Milk-Derived Exosomal miRNAs for Early Detection of Subclinical Mastitis to Enhance Production and Buffalo Herd Health*
11.45 - 12.00	OC-46	Maria Chiara Alterisio	*Evaluation of the Effects of Ozone Therapy on Mammary Inflammatory Processes in Mediterranean Buffaloes (Bubalus bubalis)*
12.00 - 12.15	OC-47	Jiakang He	*Mastitis Control Strategy in Dairy Buffaloes in Guangxi, China's "Hometown of Buffaloes": From Pathogen Tracing and Virulence Dissection to Natural Product-Based Intervention*
12.15 - 12.30	OC-48	Martina Penati	*Characterization of Extended-Spectrum β-Lactamase–Producing Escherichia coli from Feces of Italian Mediterranean Buffalo*
12.30 - 12.45	OC-49	Valentina Iovane	*Seasonal Dynamics of Bacterial Contamination and Antimicrobial Resistance in Buffalo Milking Parlors of the Campania Region, Italy: A One-Year Surveillance Study*
12.45 - 13.00	OC-50	Domenico Vecchio	*Are improved biosecurity and welfare levels sufficient drivers to reduce antimicrobial use in ruminants? The case study of Italian buffalo farms*
13.00 - 14.00	***Lunch***		
14.00 - 15.30	**Auditorium** **Dairy Processing, Innovation and Food Safety** *Chairs: Marcello Mele and Pencho Penchev*		
14.00 - 14.15	OC-51	Hong Lan	*Analysis of flavor and metabolites changes during production of Ginger milk curd and Double-Layer Steamed Milk Custard from buffalo milk*
14.15 - 14.30	OC-52	Marika Di Paolo	*Formulation and Evaluation of Homogenized Buffalo Ricotta with Native Probiotic Protective Cultures*
14.30 - 14.45	OC-53	Francesca Garofalo	*Buffalo milk yogurt produced in the province of Salerno: evaluation of chemical-physical, nutritional and organoleptic characteristics*
14.45 - 15.00	OC-54	Roberto Condoleo	*Modelling the Risk of listeriosis associated with Water Buffalo Mozzarella consumption: A Quantitative Approach*
15.00 - 15.15	OC-55	Agata Campione	*Brucella ovis as a model to study the survival of Brucella abortus/melitensis during the manufacture of buffalo mozzarella cheese*

15.15 - 15.30	OC-56	Giovanni Niero	*Characterization of detailed protein composition in buffalo milk*
14.00 - 15.30	**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	Aurora Spera	*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*
14.00 - 15.36	**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 - 16.00	***Coffee break and Poster Session***		
16.00 - 16.30	**Auditorium** *Chairs: Giuseppe Campanile and Angela Salzano*		
16.00 - 16.30	KN-13	Antonio Borghese	*Buffalo in the world: sustainability, management, products, economy trends*
16.30 - 19.00	**Auditorium** *Chairs: Giuseppe Campanile and Antonio Borghese* **IBF General Assembly** **Address by the IBF Secretary and Recognition of Delegations** **Presentation of an Award to the President of the Next Congress**		
19.00 - 21.00	***Gala Dinner*** ***Hilton Sorrento Palace - Restaurant L'Alba***		

Friday, October 30th

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** **Marco Comella**, Director, Head of Relazioni Corporate Sud 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 **Alessandro Mocellin**, President of the Dairy Sector of Confcooperative Agroalimentare		
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	William Vale	*The Future of Buffalo Breeding in Brazil: Prospects, Challenges and Commitments*
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 (Bubalus bubalis)*
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*
12.54 - 13.06	OC-78	Alejandra Hererra-Castillo	*Comparative evaluation of in vitro methane production in buffaloes and beef cattle with tropical pastures*