

25th Congress

ASPA2023

**Animal Production Science:
innovations and sustainability
for future generations**

JUNE
13-16
2023

Monopoli
Bari | Italy



**The 25th Congress of the Animal
Science and Production Association
“Animal Production Science:
Innovations and Sustainability for Future Generation”**

Under the auspices of



Dipartimento di
Medicina di Precisione e Rigenerativa
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Ministero dell'Agricoltura,
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The 25th Congress of the Animal Science and Production Association (ASPA) is hosted in Monopoli (Bari-Puglia) by the University of Bari.

The Congress is entitled “Animal Production Science: Innovations and Sustainability for Future Generations” and returns to Puglia after its second edition which was held in Bari 47 years ago.

The Congress is hosted at the charming Torre Cintola Resort in Monopoli (Bari-Puglia) from the 13th to the 16th June 2023, a special location also for celebrating the 50th anniversary of our association.

This edition of the ASPA congress has received a total of 463 scientific contributions: 296 oral presentations and 167 posters have been selected. This is a very great result! The highest number of contributions ever, according to our best knowledge.

We have taken concrete actions to enhance the sustainability of our Congress, from choosing to use digital posters (available through a smartphone app and on touchscreen monitors) to utilizing public transportation, donating leftover food to charities and preferring zero-mile food.

Moreover, the Congress opens a focus also on the role of women in Science, dedicating the Congress rooms to neglected scientists poorly celebrated but fundamental for the progress of knowledge and societal development. Finally, a disseminated photo exhibition in the Congress rooms on marginal areas is a further opportunity for attendees to deepen the knowledge of Southern Italy landscapes and their relationships with livestock industry.

The scientific program is enriched by 24 main lectures, covering all the main topics. Many thanks for the job to the President of the Organizing Committee, Prof. Pasquale De Palo, and to all the components. I also wish to thank all the members of the Scientific Committee, starting from the President Prof. Angela Gabriella D'Alessandro.

I would like to congratulate and to thank all people that have contributed to the organization of the Congress and that have collaborated in reviewing the summaries. A special thanks to them for what they have done for ASPA and for the Italian Animal Science. A special thanks also to Prof. Marcello Mele, Editor-in-Chief of the Italian Journal of Animal Science, for having contributed to the edition of the proceedings.

Nicolò Pietro Paolo Macciotta

ASPA President



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Sustainability: also a gender issue



Within the 25th ASPA Congress, it has been decided to name the conference roomsto eminent researchers-scientists women who, despite the significant contribution provided to knowledge development, had not received the right and dutiful recognition due to cultural gender prejudice. Women scientific underestimation is a problem of "social sustainability" that does not concern only the historical memory, but it is still an unresolved issue today.

Below there are short notes on some of the women who have marked the history of science.



Rosalind Elsie Franklin

(London, 25th July 1920 – London, 16th April 1958)

Her research has been fundamental **to understand the structure of the DNA, the mechanisms of replication and the inheritance of genetic information.**

Graduated at Newnham College (Cambridge), one of the few women's colleges at the time, she earned a doctorate in physical chemistry in 1945 and specialized in X-ray diffraction technique. At King's College London, in 1952 she made a series of exceptionally clear photos of the DNA, including the famous Photograph 51, which demonstrated the spatial distribution of the molecules. Rosalind Franklin's findings were stolen and revealed without her knowledge by Crick and Watson who used them to make the double helix model of the DNA. Thanks to the articles published in Nature, which omitted the formal citation of Franklin's data, Watson, Crick and Wilkins received the 1962 Nobel Prize in Medicine.

Rosalind Franklin died of ovarian cancer at the age of 37, probably linked to the radiations she had been exposed to, during her research activities.



Nettie Maria Stevens

(Cavendish, Vermont, 7th July 1861 – Baltimore, Maryland, 4th May 1912)

Biologist and geneticist, she discovered the **genetic basis of sex determination.**

She graduated in 1880 from Westfield Normal School. In 1899, she earned her Bachelor of Arts Degree in biology from Stanford University and obtained her master degree in 1900. She continued her studies at Bryn Mawr College, one of the few research institutes that allowed women to obtain doctorates. Thanks to her studies conducted on insects, Nettie M. Stevens discovered the sexual chromosomes X and Y, demonstrating the genetic determinism of sex. Stevens' research was taken over by Thomas Hunt Morgan, to whom the scientist had sent the findings of her studies. Morgan then wrote one of the first genetics textbooks in which he made the results achieved by Nettie Stevens his own. Despite the fact that they had already been published, they allowed him to win the Nobel Prize in Medicine in 1933.

The scientist died of cancer at the age of 51, in 1912. Her name and researches were ignored and quickly forgotten.



Rachel Louise Carson

(Springdale, Pennsylvania, 1907 – Rockville, Maryland, 1964)

She is considered the mother of the environmental movement.

She graduated in Biology in 1929 from Pennsylvania College for Women and in Zoology in 1932 from Johns Hopkins University. Author of numerous books published by prestigious publishing houses, such as Simon & Schuster, Nature and Oxford University Press, in 1952 she won the National Book Award and received two honorary doctorates; she also won an Oscar for a documentary movie. Carson's activity focused on the connections between pesticides and environment with increasing effects along the food chain. She was violently threatened, denigrated, and attacked by the chemical industry and by multinationals with interests in agriculture. With her studies and books, including "Silent Spring", she has induced a strong awareness in public opinion about the dangers of environmental pollution and promoted legislative reforms that, in 1970, led to the creation of the Agency for the Environment Protection.

The scientist died prematurely on the 14th April 1964, aged 56.



Marie-Anne Paulze-Lavoisier

(Montbrison, 20 January 1758 – Paris, 10 February 1836)

Chemist and science writer.

Daughter of a French parliamentarian and financier, she learnt the basis of mathematics from an early age. She married Antoine Lavoisier, a scientist and one of the fathers of modern chemistry. Marie-Anne initially helped her husband to build the laboratory and, working alongside him, played a key role in the great chemical discoveries of that time. She translated from English to French texts coming from England about the most important scientific issues. During the French Revolution, she published the book "Mémoires de Chimie", which was revived and distributed in Europe.

Despite having massively contributed to the advancement of chemistry as a new science, lot of Marie-Anne's history has been forgotten. Nowadays her husband Antoine Lavoisier is mostly known and quoted compared with her.

Program at a glance

Tuesday June 13th

	Room Daunia	Room Peucetia	Room Messapia	Room Apulia
	14:30-17:00 Chicken biodiversity Session 01 Invited: Cerolini Silvia Chairs: Iaffaldano N., Schiavone A.	14:30-16:00 Environmental footprint Session 02 Chairs: Sevi A., Zucali M.E.	14:30-16:30 Advances in dietary feed supplementation Session 03 Chairs: Calabrò S., De Palo P.	/
17:00 – 17:30	Coffee break			
	/	/	/	Opening Ceremony
20:00	Welcome cocktail			

Opening Ceremony

Chairs: **Nicolò Pietro Paolo Macciotta, Giuseppe Pulina**

17:30	Institutional Addresses
18:00	Book launch and presentation "Carni e salumi: le nuove frontiere della sostenibilità" by Bernardi E., Capri E., Pulina G., Franco Angeli Ed. Giuseppe Pulina <i>President of "Carni sostenibili" Association and Full Professor of "Livestock farming ethics and sustainability" University of Sassari</i>
18:15	Policies and perspectives of European livestock industry: which role is played by the Animal Science Community? Paolo De Castro <i>Member of the EU Committee on Agriculture and Rural Development and Professor of Agricultural Economics</i>
18:45	National Policies and future perspectives for livestock and animal food supply chain in Italy: is there a role for Animal Science Community? Giuseppe Blasi <i>Head of Department of European and International Policies and Rural Development, Ministry of Agriculture, Food Sovereignty and Forestry</i>
19:15	ASPA and its first 50 years Nicolò Pietro Paolo Macciotta <i>ASPA President</i>
20:00	Official Opening of the 25th ASPA Congress

Wednesday June 14th

	Room Daunia	Room Peucetia	Room Messapia	Room Apulia
	08:15 - 11:00 Environmental footprint Session 04  Invited: Kuipers Abele Chairs: Bernabucci U., Sepe L.	08:30 - 11:00 Advances in dietary feed supplementation Session 05  Invited: Salem Abdelfattah Z. Chairs: D'Alessandro A.G., Formigoni A.	08:30 - 11:00 Precision livestock farming: production efficiency in dairy cows Session 06  Invited: Giordano Julio O. Chairs: Abeni F., Pugliese C.	08:30 - 11:00 Development of genomics in biodiversity Session 07 Invited: Hanotte Olivier Chairs: Cecchinato A., Ciani E.
11:00 – 11:30	Coffee break			
	11:30 - 13:30 Environmental footprint Session 08 Chairs: Claps S., Sandrucci A.	11:30 - 13:30 Sustainable feeding strategies in livestock systems Session 09  Chairs: Bonanno A., Tufarelli V.	11:30 - 13:30 Animal welfare and health Session 10  Invited: Chebel Ricardo C. Chairs: Trevisi E., Gottardo F.	11:30 - 13:45 Advances in meat quality Session 11  Invited: Gagaoua Mohammed Chairs: Marino R., Mele M.
13:30 – 14:30	Lunch			
	14:30 - 16:30 Advances in rabbit and poultry products Session 12 Chairs: Maiorano G., Trocino A.	14:30 - 16:15 Genomic tools for ruminant resiliency Session 13 Invited: Miglior Filippo Chairs: Pilla F., Crepaldi P.	14:30 - 16:30 Heat stress and climate resilience in livestock Session 14 Invited: Dahl Geoffrey E. Chairs: Braghieri A., Cozzi G.	14:30 - 16:30 Metagenomic approaches in animal science Session 15 Invited: Lourenco Jeferson Menezes Chairs: Trevisi P., Castiglioni B.
16:30 – 17:00	Coffee break			
	17:00 - 18:30 New perspective in bees' production Session 16 Chairs: Fontanesi L., Minozzi G.	17:00 - 18:05 Breeding for our future Session 17  Invited: Cassandro Martino Chairs: Campanile G., Martelli G.	17:00 - 19:30 Advances in meat quality Session 18 Chairs: De Marchi M., Serra A.	17:00 - 18:30 Metagenomic approaches in animal science Session 19 Chairs: Buccioni A., Conte G.
20:30	Typical Dinner			

Thursday June 15th

	Room Daunia	Room Peucetia	Room Messapia	Room Apulia
	08:30 - 10:30 Animal welfare and health Session 20 Chairs: Albenzio M., Tarantola M.	08:15 - 11:00 Sustainability and innovation in aquaculture Session 21 Chairs: Centoducati G., Parisi G.	08:15-11:15 Advances in milk and dairy products quality Session 22  Chairs: Di Trana A.C., Martini M.	08:15 - 11:00 New paradigms in animal breeding Session 23 Invited: Lourenco Daniela Chairs: Ciampolini R., Landi V.
11:00 – 11:30	<i>Coffee break</i>			
	11:30 - 13:15 Advances in rabbit and poultry products Session 24 Invited: Stadnicka Katarzyna Chairs: Bovera F., Soglia F.	11:30 - 13:45 L.E.O. project: the Italian research commitment for the future livestock strategies Session 25  Invited: Burke Martin Chairs: Donda M., Negrini R.	11:30 - 13:30 Advances in milk and dairy products quality Session 26 Chairs: Maggiolino A., Summer A.	11:30 - 13:15 Genomic tools for ruminant resiliency Session 27  Invited: Di Croce Fernando Chairs: Lasagna E., Sacchi P.
13:30 – 14:30	<i>Lunch</i>			
	14:30 - 16:30 Recent advances in mammary gland biology and health Session 28 Chairs: Caroprese M., Lacetera N.	14:30 - 17:15 Sustainable feeding strategies in livestock systems Session 29  Invited: Pulina Giuseppe Chairs: Pinotti L., Masucci F.	14:30 - 16:45 Precision Livestock Farming: production efficiency and environmental impacts Session 30 Invited: Rose Guilherme O'Brien Bernardette Chairs: Mattiello S., Neglia G.	14:30 - 16:30 Genomic tools for ruminant resiliency Session 31 Invited: Lecchi Cristina Chairs: Bozzi R., Pasquini M.
16:30 – 17:00	<i>Coffee break</i>			
17:00	/	/	/	ASPA Assembly
20:30	<i>Social Dinner</i>			

Friday June 16th

	Room Daunia	Room Peucetia	Room Messapia	Room Apulia
	08:30 - 10:30 Animal welfare and health <i>Session 32</i> Chairs: Di Palo R., Santillo A.	08:30 - 11:00 Development of genomics in biodiversity <i>Session 33</i> Invited: Laloë Denis Chairs: Biffani S., Cipolat-Gotet C.	08:15 - 11:00 Companion animals <i>Session 34</i> Invited: Switonsky Marek Chairs: Cutrignelli M., Stefanon B.	08:00 - 11:00 Sustainable feeding strategies in livestock systems <i>Session 35</i> Invited: Atzori Alberto Stanislao Chairs: Di Francia A., Bailoni L.
11:00 – 11:30	<i>Coffee break</i>			
	11:30 - 13:30 Research and sustainability in horse production <i>Session 36</i> Invited: Vial Céline Chairs: Salimei E., Capomaccio S.	11:30 - 13:15 Insects' production for animal feeding <i>Session 37</i> Chairs: Chiofalo B., Gasco L.	11:30 - 13:30 Advances in dietary feed supplementation <i>Session 38</i> Chairs: Trabalza Marinucci M., Nudda A.	11:30 - 13:15 Genomic tools for animal resiliency and susceptibility <i>Session 39</i> Invited: Vergani Andrea Mario Chairs: Bagnato A., Sartori C.

Oral Sessions

Tuesday, June 13th | Room Daunia

Session 01

Chicken biodiversity

Chairs: Iaffaldano Nicolaia – Schiavone Achille

14:30	INVITED LECTURE Cerolini Silvia Advancement in conservation programs of Italian poultry genetic resources for rural development	
15:00	Marelli Stefano Paolo, Zaniboni Luisa, Madeddu Manuela, Mangiagalli Maria Grazia, Tognoli Cristina, Cerolini Silvia Behavioural characterization of two local Italian chicken breeds	369
15:15	Cendron Filippo, Cassandro Martino, Penasa Mauro Copy number variants in 23 Italian local chicken breeds	481
15:30	Di Iorio Michele, Iaffaldano Nicolaia, Rusco Giusy, Antenucci Emanuele, Madeddu Manuela, Zaniboni Luisa, Marelli Stefano Paolo, Cerolini Silvia Phenotypic characterization of semen production and quality in Italian chicken and turkey breeds	090
15:45	Madeddu Manuela, Zaniboni Luisa, Marelli Stefano Paolo, Di Iorio Michele, Iaffaldano Nicolaia, Mangiagalli Maria Grazia, Cerolini Silvia Variability in semen freezability within an Italian chicken breed	115
16:00	Cappone Eleonora, Soglia Dominga, Sartore Stefano, Zambotto Valeria, Maione Sandra, Profiti Margherita, Bongiorno Valentina, Gariglio Marta, Cerolini Silvia, Schiavone Achille Millefiori Piemontese, genetic characterization of an endangered local chicken breed	203
16:15	Piscitelli Raffaela, Zampiga Marco, Cartoni Mancinelli Alice, Brugaletta Giorgio, Castellini Cesare, Petracci Massimiliano, Sirri Federico Comparison of productive traits and egg quality characteristics of two Italian chicken breeds and their crossbreeds reared in enriched-cage and free-range systems	359
16:30	Angelucci Elisa, Mattioli Simona, Cartoni Mancinelli Alice, Dal Bosco Alessandro, Ciarelli Claudia, Guarino Amato Monica, Failla Sebastiana, Castellini Cesare Assessment of muscle metabolism in differently kinetic chicken genotypes using the Activity Index	500
16:45	Perini Francesco, Wu Zhou, Cartoni Mancinelli Alice, Mattioli Simona, Soglia Dominga, Schiavone Achille, Mugnai Cecilia, Castellini Cesare, Smith Jacqueline, Lasagna Emilio RNAseq reveals modulation of genes involved in fatty acid biosynthesis in chicken liver according to genetic background, sex and diet	354
17:00	Coffee Break	

Tuesday, June 13th | Room Peucetia

Session 02

Environmental Footprint

Chairs: Sevi Agostino – Zucali Maddalena Enrica

14:30	Primi Riccardo, Ripert Stefano, Viola Paolo, Rossi Carlo Maria, Danieli Pier Paolo, Ronchi Bruno Trend in management scenarios of smallholder livestock farming systems affects ecosystem services: a landscape perspective from Campo di Segni (Lazio, Central Italy)	126
14:45	Marchesini Giorgio, Fossaluzza Davide, Andrighto Igino Discriminating between limiting and reducing factors in dairy farms through yield gap analysis	522
15:00	Xavier Vergé, Robin Paul, Nadège Edouard, Becciolini Valentina, Cieslak Adam, Szumacher Małgorzata, Fehmer Lena, Galama Paul, Juškiene Violeta, Kadziene Gitana, Ruska Diana Development of a screening method for GHG and NH ₃ measurements – First results based on a European study	460
15:15	Vaiani Sergio An agronomic-food strategy to improve the environmental impact in terms of water saving and food efficiency	505
15:30	Fatica Antonella, Giovanditti Anna Concetta, Fantuz Francesco, Salimei Elisabetta Carbon footprint of intensive vs. extensive dairy farming in Gargano area	243
15:45- 16:00	Finocchiaro Raffaella, Galluzzo Ferdinando, van Kaam Jan-Thijs, Cassandro Martino Predicted methane emission a new breeding value for the Italian Holstein	477
17:00	Coffee Break	

Tuesday, June 13th | Room Messapia

Session 03

Advances in dietary feed supplementation

Chairs: Calabò Serena – De Palo Pasquale

14:30	Frazzini Sara, Reggi Serena, Pavlovic Radmila, Canala Benedetta, Torresani Claudia Maria, Resca Rita, Rossi Luciana <i>Characterization of major algal species and their prebiotic potential</i>	355
14:45	Negrini Clara, Luise Diana, Correa Federico, Amatucci Laura, Virdis Sara, Roméo Agathe, Manzke Naiana, Trevisi Paolo <i>Implication of authorized level of Zn provided from different sources on the performance and health of low and normal birth weight piglets post-weaning</i>	347
15:00	Dell'Anno Matteo, Frazzini Sara, Ferri Irene, Scaglia Elena, Reggi Serena, Rossi Luciana <i>Dietary supplementation of <i>Ascophyllum nodosum</i> and <i>Lithothamnium calcareum</i> as functional feed additives for weaned piglets</i>	339
15:15	Correa Federico, Luise Diana, Negrini Clara, Virdis Sara, Amatucci Laura, Dalcanale Simone, Olia Alessandro, Del Zocco Francesca, Trevisi Paolo <i>Effect of the administration of two phytoextracts pre-mixes compared to the pharmacological dose of ZnO on the health, growth performance and faecal microbial profile of weaned pigs</i>	343
15:30	Ferlisi Flavia, De Ciucis Chiara Grazia, Fruscione Floriana, Mecocci Samanta, Cappelli Katia, Razzuoli Elisabetta, Trabalza Marinucci Massimo <i>Antimicrobial and immunomodulatory evaluation of Olive Mill Wastewater Polyphenols for dietary supplementation in an in vitro swine intestinal model</i>	132
15:45	Lanzoni Davide, Rebucci Raffaella, Cheli Federica, Baldi Antonella, Giromini Carlotta <i>Functional in vitro characterization of hemp seeds for nutritional applications</i>	537
16:00	Sandrini Silvia, Perricone Vera, Cremonesi Paola, Castiglioni Bianca, Biscarini Filippo, Parra Titos Eva R., Vittorio Francesco, Verdile Nicole, Brevini Tiziana, Savoini Giovanni, Agazzi Alessandro <i>Effect of a combination of three yeasts on growth performance and gut health of weaning piglet</i>	097
16:15- 16:30	Bee Giuseppe <i>Effect of nutrient self-supply through choice feeding on growth performance, feeding behavior</i>	473
17:00	Coffee Break	

Wednesday, June 14th | Room Daunia

Session 04

Environmental footprint

Sponsored by IGREEN Innovation

Chairs: Bernabucci Umberto - Sepe Lucia

08:15	INVITED LECTURE Kuipers Abele, Galama Paul <i>Innovative practices and techniques dealing with the environmental impact of livestock farms</i>	
08:45	Lunesu Mondina Francesca, Caratzu Maria Francesca, Nudda Anna, Battaccone Gianni, Pulina Giuseppe <i>Net carbon footprint of Sardinia Beef Cow-Calf system</i>	496
09:00	Gislon Giulia, Zucali Maddalena, Bava Luciana, Marusi Maurizio, Ferrari Valentina, Finocchiaro Raffaella, Cassandro Martino, Sandrucci Anna <i>Modelling GWP of milk production using technical efficiency indicators</i>	479
09:15	Finocchi Matteo, Moretti Michele, Mantino Alberto, Ripamonti Alice, Mele Marcello <i>GIS model application for the assessment of nitrogen emissions from cattle</i>	141
09:30	Grossi Giampiero, Vitali Andrea, Evangelista Chiara, Rossi Chiara, Cesarini Francesco, Basiricò Loredana, Turriziani Giovanni, Lacetera Nicola, Bernabucci Umberto <i>Implementation of water footprint assessment methodology on buffalo mozzarella cheese</i>	209
09:45	Vitali Andrea, Grossi Giampiero, Rossi Chiara, Cesarini Francesco, Evangelista Chiara, Basiricò Loredana, Turriziani Giovanni, Lacetera Nicola, Bernabucci Umberto <i>Cradle-to-grave life cycle assessment of buffalo mozzarella cheese</i>	214
10:00	Bragaglio Andrea, Romano Elio, Cutini Maurizio, Claps Salvatore, De Palo Pasquale <i>Sustainability of Life Cycle Assessment (LCA) for the estimation of donkey milk environmental impact: a case study</i>	585
10:15	Caratzu Maria Francesca, Lunesu Mondina Francesca, Nudda Anna, Battaccone Gianni, Correddu Fabio, Massidda Andrea, Camberoni Alberto, Pulina Giuseppe <i>Suckling lamb as net-zero product in Sardinian dairy sheep farms</i>	527
10:30	Correddu Fabio, Cadau Giordana, Carta Silvia, Cesaraní Alberto, Congiu Michele, Macchiotta Nicolò Pietro Paolo <i>Predicting enteric methane emission of dairy sheep using milk fatty acid profiles</i>	293
10:45	Cavallini Damiano, Buonaiuto Giovanni, De Matos Vettori Julio, Fusaro Isa, Formigoni Andrea <i>Methane emission pattern in dairy cows evaluated in automatic milking system</i>	307
11:00	Coffee break	

Wednesday, June 14th | Room Peucetia

Session 05

Advances in dietary feed supplementation

Sponsored by Prosol

Chairs: D'Alessandro Angela Gabriella - Formigoni Andrea

08:30	INVITED LECTURE Salem Abdelfattah Zeidan, Vazquez Mendoza Oscar Vicente, Elghandour Mona M.M.Y., De Palo Pasquale, Maggiolino Aristide Feed additives in ruminants feeding: Update knowledge with focusing on natural additives	
09:00	Greco Roberta, De Palo Pasquale, Maggiolino Aristide, Mulè Giuseppina, Ferrara Massimo Effects of nucleotides and yeast supplementation on gut microbial population of calves	587
09:15	Sgarro Maria Federica, Vaiani Sergio, Palazzo Clemente, Di Marzantonio Pietro, Maggiolino Aristide, De Palo Pasquale Effect of a diatomaceous-based dietary additive on milk production, antioxidant status and immune response during peripartum in buffaloes	591
09:30	Foggi Giulia, Rocchetti Gabriele, Amarie Roxana Elena, Campidonico Luca, Agnolucci Monica, Gallo Antonio, Tognocchi Monica, Silvi Alina, Buccioni Arianna, Mele Marcello Can olive cake by-products be employed to produce silage with enhanced nutrition characteristics?	148
09:45	Salimei Elisabetta, Castoria Raffaello, Tremonte Patrizio, Lombardi Silvia Jane, Caturano Costantino, Ianiri Giuseppe, Palmieri Davide, Conte Thomas, Fatica Antonella Ensiled tobacco cv. Solaris biomass: chemical, microbiological, phytopathological and nutritional characteristics	264
10:00	Fumo Valentina, Meli Giovanna, Scicutella Federica, Invernizzi Guido Camelina sativa and Cynara cardunculus cakes supplementation on performance and milk composition in dairy goats during the transition period	419
10:15	Scaglia Elena, Reggi Serena, Ferri Irene, Frazzini Sara, Dell'Anno Matteo, Rossi Luciana Effect of milk replacer supplemented with Ascophyllum nodosum on gut health of Holstein calves	536
10:30	Sfulcini Marta, Cattaneo Luca, Lopreiato Vincenzo, Berelli Marco, Cagnassi Enrica, Castellani Elena, Piccioli Fiorenzo, Trevisi Erminio, Minuti Andrea Effect of yeast supplementation with Saccharomyces Cerevisiae fermentation products (SCFP) on performance and metabolic profile in suckling Holstein calves	524
10:45	Amato Annalisa, Oteri Marianna, Cavallo Carmelo, Bonacci Sonia, Chiofalo Vincenzo, Liotta Luigi Evaluation of fatty acids profile of milk produced by mid-lactating Holstein cows fed with enriched olive cake diet	151
11:00	Coffee break	

Wednesday, June 14th | Room Messapia

Session 06

Precision Livestock Farming: production efficiency in dairy cows

Sponsored by MSD Animal Health

Chairs: Abeni Fabio – Pugliese Carolina

08:30	INVITED LECTURE Giordano Julio O. Improving dairy herd monitoring and management using automated monitoring technologies	
09:00	Fiorbelli Erica, Atzori Alberto Stanislao, Tedeschi Luis, Cattellani Alessandro, Gallo Antonio A dynamic mechanistic model to forecast the oscillatory feeding behaviour of lactating dairy cows	407
09:15	Zucali Maddalena, Bianchi Maria Cecilia, Gislon Giulia, Bonizzi Serena, Sandrucci Anna How much is the environmental benefit of using Precision Livestock Farming in Italian dairy farms?	241
09:30	Confessore Andrea, Aquilani Chiara, Fuchs Patricia, Probo Massimiliano, Pauer Caren M., Schneider Manuel, Argenti Giovanni, Pugliese Carolina Does age affect learning capacity and grazing activities of Holstein cows managed with Virtual Fencing collars?	313
09:45	Abeni Fabio, Marino Rosanna, Petrera Francesca, Canevaro Greta, Richichi Mariantonietta, Carminati Domenico, Giraffa Giorgio, Barzaghi Stefania, Benedino Dario, Tidona Flavio Effects of different automated feeding management on milk traits and rumination time of dairy cows during hot season	418
10:00	Giovinazzo Simone, Brambilla Massimo, Lazzari Andrea, Bisaglia Carlo NIR spectrophotometric investigation to highlight early signs of ketosis in dairy cows	189
10:15	Celozzi Stefania, Calcante Aldo, Pavesi Martina, Mattiello Silvana, Mazzocchi Chiara, Corsi Stefano, Zannotti Michele, Zucali Maddalena, Battini Monica From tie-stall to loose house with Automatic Milking Robot in dairy cow systems: economic, production and animal welfare implications	530
10:30	Ranzato Giovanna, Aernouts Ben, Lora Isabella, Ben Abdelkrim Ahmed, Adriaens Ines, Gote Martin Julius, Cozzi Giulio Comparison of different methods to estimate dairy cows' production potential	451
10:45	Costa Angela, Cavallini Damiano, Mammi Ludovica, Visentin Giulio, Formigoni Andrea Assessment and validation of individual water intake of dairy cows from reticular boluses	274
11.00	Coffee break	

Wednesday, June 14th | Room Apulia

Session 07

Development of genomics in biodiversity

Chairs: Cecchinato Alessio – Ciani Elena

08:30	INVITED LECTURE Hanotte Olivier The known and unknown African cattle genomes	
09:00	Chessari Giorgio, Criscione Andrea, Crepaldi Paola, Marletta Donata, Portolano Baldassare, Biscarini Filippo, Mastrangelo Salvatore Mapping of Heterozygosity-Rich Regions in Italian and Worldwide goat populations	064
09:15	Moscarelli Angelo, Chessari Giorgio, Tolone Marco, Criscione Andrea, Zumbo Alessandro, Rizzuto Ilaria, Riggio Silvia, Macaluso Vito, Portolano Baldassare, Sardina Maria Teresa, Mastrangelo Salvatore Genomic tools for the characterization of the not officially recognized livestock populations: a case study in Mascalunga goat and Pecora Nera sheep from Sicily	513
09:30	Bionda Arianna, Cortellari Matteo, Lopreiato Vincenzo, Crepaldi Paola, Chiofalo Vincenzo, Liotta Luigi Genomic characterization of the Comune di Sicilia goat, a local Sicilian genetic resource	285
09:45	Gomez Proto Guido, Mancin Enrico, Tuliozi Beniamino, Sartori Cristina, Mantovani Roberto Genome-wide association analysis of productive traits in grey alpine cattle breed	556
10:00	Di Civita Marika, Senczuk Gabriele, Rillo Luigina, Macciocchi Alessandra, Occidente Mariaconsiglia, Saralli Giorgio, D'Onofrio Valentina, Galli Tiziana, Persichilli Christian, Di Giovannantonio Claudio, Pilla Fabio, Matassino Donato Genomic profiling of several Lazio Indigenous goat breeds in the Italian context	371
10:15	Barbato Mario, De Nardo Floro, Bigi Daniele, Vajana Elia, Eufemi Elisa, Crepaldi Paola, Ajmone Marsan Paolo, Colli Licia, Orozco-terWengel Pablo, Bruford Michael W., Russo Isa M. Assessing signatures of selection and climate adaptation in European and African livestock	427
10:30	Somenzi Elisa, Partel Erika, Barbato Mario, Chero Osorio Ana María, Colli Licia, Franceschi Niccolò, Pilla Fabio, Komjanc Matteo, Achilli Alessandro, Hauffe Heidi Christine, Ajmone Marsan Paolo Genetic diversity and runs of homozygosity in Rendena Cattle	507
10:45	Senczuk Gabriele, Di Civita Marika, Persichilli Christian, Destro Bisol Giovanni, Anagnostou Paolo, Pilla Fabio On the road to domestication: a preliminary comparative genomics approach to reconstruct human and livestock correlates	568
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Session 08

Environmental footprint

Chairs: Claps Salvatore – Sandrucci Anna

11:30	Martinic Oliver, Magrin Luisa, Dante Simone, Cozzi Giulio, Gottardo Flaviana Product Environmental Footprint (PEF) as evaluation tool of environmental sustainability in beef cattle farms	337
11:45	Meo Zilio David, Steri Roberto, Iacurto Miriam, Cenci Francesco, La Mantia Maria Chiara, Chiariotti Antonella Study of Methane Emission in the Mediterranean Buffalo Through the Use of Laser Methane Detector and its Correlation with Microbial Population from Different Matrices within the AgriDigt Project	361
12:00	Mantino Alberto, Ripamonti Alice, Tranchina Margherita, Villani Ricardo, Finocchi Matteo, Mele Marcello Agroforestry to support carbon-neutral dairy productions in Tuscany	553
12:15	Salimei Elisabetta, Colombo Claudio, Di Iorio Erika, Manzo Alessio, Miraglia Nicoletta, Fatica Antonella A holistic characterization of pasture area of Centre-South Italy	267
12:30	Bertoni Marco, Schiavon Stefano, Gallo Luigi Environmental footprint of heavy pig production system	032
12:45	Benedetti Del Rio Elena, Ramanzin Maurizio, Raniolo Salvatore, Sturaro Enrico The value of sheep transhumance for rural landscape: a GPS tracking approach	062
13:00	Biagini Davide Evaluate, drive and communicate the sustainability of complex systems: a proposal	269
13:15	Giaccio Francesca, Federiconi Alessia, Colleluori Riccardo, Canestrari Giorgia, Palmonari Alberto Assessment of individual dairy cows <i>in vitro</i> rumen methane emissions	306
13:30	Lunch	

Wednesday, June 14th | Room Peucetia

Session 09

Sustainable feeding strategies in livestock systems

Sponsored by Plantamura

Chairs: Bonanno Adriana - Tufarelli Vincenzo

11:30	Mazzoleni Sharon, Tretola Marco, Luciano Alice, Ottoboni Matteo, Manoni Michele, Bee Giuseppe, Pinotti Luciano <i>The use of sugary and salty food industry leftovers as alternative to cereal grains does not affect the growth performance in growing and finishing pigs</i>	107
11:45	Virdis Sara, Correa Federico, Luise Diana, Negrini Clara, Amatucci Laura, Trevisi Paolo <i>Different formulations of benzoic acids as strategy to replace therapeutic dose of ZnO on health and performance of weaned pigs</i>	357
12:00	Luise Diana, Correa Federico, Virdis Sara, Negrini Clara, Cestonaro Giulia, Nataloni Luigi, Titton Greta, Sattin Eleonora, Costanzo Enrico, Trevisi Paolo <i>Effect of different doses of camelina cake as soybean meal substitution of growth performance and gut health of weaned pigs</i>	353
12:15	Evangelista Chiara, Basiricò Loredana, Galli Tiziana, Bruni Gianpaolo, Bernabucci Umberto <i>Relationship between feeding management and milk characteristics in dairy buffalo</i>	112
12:30	Silvi Alina, Conte Giuseppe, Turini Luca, Foggi Giulia, Tognocchi Monica, Castagna Antonella, Mantino Alberto, Mele Marcello <i>Effect of increasing concentration of Salicornia on in vitro degradability of dietary dry matter and neutral detergent fibre</i>	060
12:45	Kiatti Dieu donné, Vastolo Alessandro, Koura Bossima Ivan, Cutrignelli Monica Isabella, Vitaglione Paola, Calabò Serena <i>Cashew (<i>Anacardium occidentale</i> L.) apple by-products: a promising feed in animal nutrition</i>	093
13:00	Lambiase Claudia, Serrapica Francesco, Braghieri Ada, Riviezz Amelia, Di Matteo Roberto, Masucci Felicia <i>The inclusion of hemp (<i>Cannabis sativa</i> L.) cake in laying hen diets influences yolk fatty acid profile and sensory quality during the shelf life of eggs</i>	154
13:15	Fatica Antonella, Fantuz Francesco, Sacchetto Carlo, Ferro Antonio, Zullo Tullio, Salime Elisabetta <i>Tobacco cv. Solaris seed cake in the diet of growing beef calves</i>	238
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Session 10

Animal Welfare and Health

Sponsored by A.R.A. Puglia

Chairs: Trevisi Erminio – Gottardo Flaviana

11:30	INVITED LECTURE Chebel Ricardo C., Schuenemann Gustavo M., Shearer Jan <i>US Welfare Standards: Investing in Animal Welfare Pays Off</i>	
12:00	Cecchinato Alessio, Toledo-Alvarado Hugo, Macedo Mota Lucio Flavio, Giannuzzi Diana, Trevisi Erminio, Ajmone Marsan Paolo, Pegolo Sara, Bittante Giovanni <i>Milk infrared-derived predictions of blood metabolites as a tool to assess fertility in dairy cattle</i>	494
12:15	Cattaneo Luca, Piccioli-Cappelli Fiorenzo, Lovotti Giorgia, Lopreiato Vincenzo, Trevisi Erminio, Minuti Andrea <i>Impact of decreased nutrient density at dry-off on inflammatory conditions in dairy cows</i>	452
12:30	Catellani Alessandro, Minuti Andrea, Trevisi Erminio, Gallo Antonio <i>Transition period for Brown Swiss and Holstein dairy cows: feeding behavior and metabolic status</i>	521
12:45	Fossaluzza Davide, Marchesini Giorgio <i>Management of dairy heifers: can operant conditioning decrease stress and ease animals' monitoring and manipulation?</i>	523
13:00	Pulido-Rodriguez Lina Fernanda, Secci Giulia, Tignani Maria Vittoria, Medeiros Adja, Faccenda Filippo, Parisi Giuliana <i>Cold shock by immersion in ice salty water is a suitable method to stun <i>Campione del Garda</i> (<i>Salmo carpio</i>) both considering animal welfare and flesh quality during storage</i>	543
13:15	Florit Eleonora, Romanzin Alberto, Spanghero Mauro <i>Could eating time be a useful indicator in dairy farm management?</i>	215
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Session 11 Advances in meat quality

Sponsored by Siciliani
Chairs: Marino Rosaria – Mele Marcello

11:30	INVITED LECTURE Gagaoua Mohammed <i>Building better knowledge on meat quality determination through integrated data mining and curation of proteomics studies</i>	
12:00	Karatosidi Despoina, Michailidis Georgios, Avgeris Efthimios, Symeon Georgios, Tarricone Simona <i>Meat quality assessment of raw meat from two Mediterranean autochthonous pig breeds reared in sustainable conditions</i>	559
12:15	Forte Lucrezia, Calzaretti Giovanna, Landi Vincenzo, Aloia Alessandra, De Palo Pasquale, Maggiolino Aristide <i>Dry vs wet aging in the enhancement of culled goat meat quality</i>	586
12:30	Aquilani Chiara, Confessore Andrea, Sirtori Francesco, Pugliese Carolina <i>Effect of immunocastration on quality traits of fresh and dry-cured loin in Italian heavy pigs production</i>	139
12:45	Valenti Bernardo, Roscini Valentina, Bolletta Viviana, Fodaroni Chiara, Mercati Valentino, Morbidini Luciano, Pauselli Mariano <i>Monitoring the meat quality of grass-fed Angus beef during different seasons</i>	265
13:00	Mattioli Simona, Cartoni Mancinelli Alice, Castellini Cesare, Angelucci Elisa, Dal Bosco Alessandro <i>Application of the Healthy Fatty Index to discriminate the meat nutritional quality of different slow-growing chickens</i>	026
13:15	Castro Ndong Ncogo Nchama, Saccà Elena, Brunner Ilario, Sepulcri Angela, Corazzin Mirco, Piasentier Edi <i>Pork characteristics of Mangalitza pigs reared outdoors</i>	538
13:30	Piscopo Nadia, Di Paolo Marika, Casalino Loriana, Matera Roberta, Balestrieri Anna, Marrone Raffaele, Esposito Luigi <i>Physico-chemical and rheological differences of wild boar muscle in post-mortem time in Campania region: Preliminary study</i>	550
13:45	Lunch	

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Session 12 Advances in rabbit and poultry products

Chairs: Maiorano Giuseppe - Trocino Angela

14:30	Serra Valentina, Castrica Marta, Agradi Stella, Curone Giulio, De Bellis Roberta, Pastorelli Grazia <i>Antioxidant enzyme activity of rabbits fed dietary bovine colostrum supplementation</i>	312
14:45	Pitino Rosario, Simoni Marica, Danese Tommaso, Mantovani Giorgia, Kyriakaki Panajota, Tsiplikou Eleni, Righi Federico <i>Use of natural antioxidants in poultry diet balanced for antioxidant capacity</i>	441
15:00	Birolo Marco, Trocina Angela, Gratta Francesco, Zuffellato Andrea, Xiccato Gerolamo <i>Feed restriction strategies in growing rabbits fed post-weaning diets with different protein levels</i>	578
15:15	Mannelli Federica, Daghio Matteo, Scicutella Federica, Nannucci Lapo, Falce Michele, Brajon Giovanni, Galigani Ilaria, Buccioni Arianna <i>Cardoon meal as an alternative sustainable ingredient in broiler feeding</i>	028
15:30	Perricone Vera, Sandrini Silvia, Irshad Nida, Comi Marcello, Lecchi Cristina, Stella Simone, Tirloni Erica, Savoini Giovanni, Agazzi Alessandro <i>Effects of hydrolyzed yeast on growth performance, meat quality, and intestinal immune status of broiler chickens</i>	051
15:45	Guerrini Alessandro, Zago Massimo, Tedesco Doriana E.A. <i>Effects of Citrus aurantium dulcis essential oil and Yucca schidigera saponins on broiler performance and health</i>	070
16:00	Srikanthithasan Karthika, Gariglio Marta, Fiorilla Edoardo, Giorgino Andrea, Dellepiane Lucrezia, Diaz Vicuna Elena, Sola Dario, Bongiorno Valentina, Bergagna Stefania, Schiavone Achille, Raspa Federica, Profiti Margherita, Stoppani Nadia, Soglia Dominga, Forte Claudio <i>Effects of bakery by-products inclusion in the broiler's diet on growth performance, carcass yield and gene expression profiling</i>	029
16:15-16:30	Raspa Federica, Stoppani Nadia, Soglia Dominga, Perini Francesco, Fiorilla Edoardo, Profiti Margherita, Maione Sandra, Schiavone Achille, Sacchi Paola, Lasagna Emiliano, Mugnai Cecilia <i>Evaluation of the effect of the breeding system on the expression of liver genes in local slow-growing chicken breeds</i>	204
16:30	Coffee break	

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Session 13 Genomic tools for ruminant resiliency

Chairs: Pilla Fabio – Crepaldi Paola

14:30	INVITED LECTURE Miglior Filippo, Baes Christine Leveraging genomics to achieve dairy net zero	
15:00	Cesarani Alberto, Lourenco Daniela, Degano Lorenzo, Vicario Daniele, Macciotta Nicolò Pietro Paolo Different strategies for selecting core animals in the APY for single-step GBLUP	076
15:15	Giovannini Samira, Negro Alessio, Lasagna Emiliano, Giontella Andrea, Grande Silverio, Sarti Francesca Maria The ability of udder linear morphological evaluation to predict milk production in Massese and Comisana sheep	181
15:30	Tiezzi Francesco, Biffani Stefano, Fabbri Maria Chiara, Crovetti Alessandro, Bozzi Riccardo Genomic selection for stay-ability in Italian Limousine and Charolais	185
15:45	Pugliano Mariagiulia, Nowacka-Woszuk Joanna, Longobardi Valentina, Stachowiak Monika, Peretti Vincenzo, Szczerbala Izabela, Cirotola Francesca, Switonski Marek, Albarella Sara MBL2 gene polymorphisms in Mediterranean Italian River Buffalo (<i>Bubalus bubalis</i>) in relation to milk production traits	436
16:00-16:15	Colli Licia, Correddu Fabio, Palazzo Mariantonietta, Somenzi Elisa, Eufemi Elisa, Cesarani Alberto, Zedda Marco, Macciotta Nicolò Pietro Paolo An ancient DNA perspective on the genomic variation of present day Sardinian Cattle	374
16:30	Coffee break	

Wednesday, June 14th | Room Messapia

Session 14 Heat stress and climate resilience in livestock

Chairs: Braghieri Ada – Cozzi Giulio

14:30	INVITED LECTURE Dahl Geoffrey E. Late gestation heat stress programs reduced performance and survival phenotype in dairy cattle	
15:00	Sirtori Francesco, Fabbri Maria Chiara, Parrini Silvia, Crovetti Alessandro, Messeri Alessandro, Mancini Marco, Bozzi Riccardo Precision livestock farming to control changes in behavior and production in dairy cows based on variations in environmental THI	528
15:15	Laloë Denis, Biscarini Filippo, Mastrangelo Salvatore, Senczuk Gabriele, Persichilli Christian, Conte Giuseppe, Finocchiaro Raffaella, van Kaam Jan Thijs, Benzonni Lorenzo, Ciampolini Roberta, Cassandro Martino Integrative factorial methods to explore the relationships between genotypes, phenotypes and climate in Holstein cows	470
15:30	Cresci Roberta, Atamer Balkan Büsra, Tedeschi Luis Orlindo, Atzori Alberto Stanislao Modeling heat flows in heat-stressed dairy cows using System Dynamics techniques	394
15:45	Magrin Luisa, Fabbri Giorgia, Prevedello Paola, Concheri Gianmaria, Gottardo Flaviana Testing of a pilot system for the automatic monitoring of activity and body temperature of beef cattle	335
16:00	Martinez-Marin Gustavo, Bittante Giovanni, Toledo-Alvarado Hugo Modelation of the effect of heat stress on milk yield and milk composition in purebred and crossbred cows	542
16:15	Carta Silvia, Correddu Fabio, Peana Ilaria, Fois Giuliano, Cesarani Alberto, Macciotta Nicolò Pietro Paolo Effect of THI on milk composition and fatty acid profile of Sarda dairy sheep	234
16:30	Coffee break	

Wednesday, June 14th | Room Apulia

Session 15 Metagenomic approaches in animal science

Chairs: Trevisi Paolo – Castiglioni Bianca

14:30	INVITED LECTURE Lourenco Jeferson Menezes <i>Unravelling the Complexity of Animal-Microbe Interactions</i>	
15:00	Maltecca Christian, Tiezzi Francesco <i>Microbial and genomic information synergistically contribute to predicting swine performance across production systems</i>	487
15:15	Floridia Viviana, Giuffrè Letterio, D'Alessandro Enrico <i>Influence of genetic background and the effect of liquid whey supplementation on the faecal microbiota composition in Nero siciliano and commercial crossbreed pigs</i>	146
15:30	Amarie Roxana Elena, Campidonico Luca, Tognocchi Monica, Tinagli Sara, Casarosa Laura, Correa Federico, Serra Andrea <i>A comparison of waxy versus regular maize in diets for post-weaning piglets: effect on growth performance, colon volatile fatty acids concentration, and gut microbiota</i>	506
15:45	Toscano Alessandro, Giannuzzi Diana, Malgwi Isaac H., Deb Saptarathi, Squartini Andrea, Stevanato Piergiorgio, Schiavon Stefano <i>Characterization of dry-cured ham microbiome by 16S rRNA profiling during seasoning</i>	124
16:00	Raspa Federica, Chessa Stefania, Moretti Riccardo, Ferrocino Ilario, Corvaglia Maria Rita, Cocolin Luca Simone, Bordin Clara, Bergero Domenico, Valle Emanuela <i>Effect of two feeding managements on the microbiota of different intestinal compartments of the horse digestive tract</i>	297
16:15	Tiezzi Francesco, Maltecca Christian <i>Use of gut microbiota as a selection tool in swine</i>	579
16:30	Coffee break	

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Session 16 New perspective in bees' production

Chairs: Fontanesi Luca – Minozzi Giulietta

17:00	Lazzari Filippo, Cresta Eleonora, Carbonari Fausto, Kasiotis Konstantinos M., Shairra Souad A., Dipasquale Daniele, Manganello Federico, Danieli Pier Paolo <i>Honey quality and traceability: a preliminary investigation on Citrus honeys physio-chemical traits from three Mediterranean Countries</i>	205
17:15	Danieli Pier Paolo, Lazzari Filippo, Cresta Eleonora, Carbonari Fausto, Petrocchi Jasinski Francesca, Manganello Federico <i>Pollen quality: a study on the elemental profile of pollen sampled in a suburban environment</i>	200
17:30	Coppola Francesca, Sagona Simona, Tafi Elena, Casini Lucia, Piana Lucia, Dall'Olio Raffaele, Felicioli Antonio <i>Glucose oxidase and carboxypeptidase A-like activity as new potential freshness markers for Royal Jelly</i>	166
17:45	Manganello Federico, Cresta Eleonora, Carbonari Fausto, Danieli Pier Paolo, Lazzari Filippo <i>Ex-hive trials on the efficacy of hop beta acids on the control of the honey bee parasite Varroa destructor</i>	134
18:00	Coppola Francesca, Sagona Simona, Nanetti Antonio, Tafi Elena, Felicioli Antonio <i>Substitution of pollen source with commercial protein diet in honey bees nutrition: effects on survival rate and health</i>	165
18:15-18:30	Taurisano Valeria, Ribani Anisa, Utzeri Valerio Joe, Sami Dalal, Johnson Kate, Fontanesi Luca <i>An over-time distribution map of <i>Apis mellifera</i> mitotypes in Italy constructed using an environmental DNA approach</i>	225

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Session 17 Breeding for our future

Sponsored by FEDANA

Chairs: Campanile Giuseppe – Martelli Giovanna

17:00	INVITED LECTURE Cassandro Martino Rethinking Breeding Strategies in Livestock species	
17:10	Benzoni Lorenzo, Tiezzi Francesco, Finocchiaro Raffaella, Galluzzo Ferdinando, Cassandro Martino Genetic parameters of growth, feed efficiency and greenhouse gases emissions in Italian Holstein young bulls	457
17:15	Benzoni Lorenzo, Finocchiaro Raffaella, Niero Giovanni, Invernizzi Guido, Savoini Giovanni, Galluzzo Ferdinando, Cassandro Martino Animal breeding sustainability: the Italian Holstein experience	458
17:20	Biffani Stefano, Goméz Mayra, Cimmino Roberta, Rossi Dario, Zullo Gianluigi, Negrini Riccardo, Cesarani Alberto Experiences with a single-step genome evaluation in Italian Mediterranean Buffalo	236
17:25	Bertolini Francesca, Bovo Samuele, Schiavo Giuseppina, Ballan Mohamad, Cappelloni Manolo, Tinarelli Silvia, Gallo Maurizio, Fontanesi Luca Signatures of selection in Italian heavy pigs: how genetic programs for PDO ham productions are shaping the genomes of cosmopolitan breeds	255
17:30	Schiavo Giuseppina, Bovo Samuele, Bertolini Francesca, Bolner Matteo, Ribani Anisa, Taurisano Valeria, Dall'Olio Stefania, Bonacini Massimo, Fontanesi Luca Reconstructing pedigree information in the Reggiana cattle breed based on high density SNP data	244
17:40	Degano Lorenzo, Vicario Daniele, Romanzin Alberto, Cesarani Alberto Selection for feed efficiency in Italian Simmental breed	580
17:45	Ablondi Michela, Asti Vittoria, Capomaccio Stefano, Sartori Cristina, Giontella Andrea, Cappelli Katia, Mantovani Roberto, Silvestrelli Maurizio, Sabbioni Alberto Inbreeding and genetic diversity in Italian horse heritage	379
17:50	Ablondi Michela, Cipolat-Gotet Claudio, Stocco Giorgia, Crepaldi Paola, Cortellari Matteo, Negro Alessio, Summer Andrea, Biffani Stefano How to combine microsatellite and SNP for parentage verification in sheep?	377
17:55	Callegaro Simone, Biffani Stefano, Tiezzi Francesco, Fabbri Maria Chiara, Bozzi Riccardo Impact of heat stress on growth of Italian Limousine and Charolais	195
18:00-18:05	Sbarra Fiorella, Quaglia Andrea, Bittante Giovanni, Mantovani Roberto Genetics of udder volume and maternal ability in Italian beef cattle	019

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Session 18 Advances in meat quality

Chairs: De Marchi Massimo – Serra Andrea

17:00	Tavaniello Siria, Zejnelhoxha Sanije, Viegas Olgas, Pinto Edgar, Ferreira Isabel M.L.P.V.O, Maiorano Giuseppe Effect of different doses of Vitamin E added to beef patties on the formation of Polycyclic aromatic hydrocarbons	569
17:15	Berardi Giovanna, Di Taranto Aurelia, Vita Valeria, Iammarino Marco Study of nitrite and nitrate residual levels in meat products after different types of cooking treatment	082
17:30	della Malva Antonella, Gagoua Mohammed, Santillo Antonella, Priolo Alessandro, di Corcia Martina, Marino Rosaria, Ciliberti Maria Giovanna, Caroprese Mariangela, Sevi Agostino, Albenzio Marzia Plasma proteome, a non-invasive biofluid to monitor lamb meat quality	116
17:45	Soglia Francesca, Babini Elena, Mazzoni Maurizio, Petracci Massimiliano Collagen and extracellular matrix composition of chicken breast meat affected by growth-related abnormalities	229
18:00	Baldi Giulia, Zampiga Marco, Soglia Francesca, Gagliano Mara Antonia, Petracci Massimiliano, Sirri Federico Microalgae as alternative protein source to soybean: effects on the main quality traits of broiler breast meat	109
18:15	Huerta Almudena, Trocino Angela, Pirrone Fabrizio, Bordignon Francesco, Xiccato Gerolamo, Birolo Marco Technological and sensorial meat quality of broiler chickens: effect of genotype and heat stress	454
18:30	Polidori Paolo, Cammertoni Natalina, Vincenzetti Silvia Mule carcass characteristics and meat quality	577
18:45	Frongia Andrea, Acciari Marco, Manca Carla, Pintone Andrea, Picconi Stefano, Sitzia Maria Heavy lamb production as a way to differentiate dairy sheep livestock system	583

19:00	Nardelli Valeria, Ingegno Mariateresa, Della Rovere Ines, Chiappinelli Andrea, Casamassima Francesco, Tomaiuolo Michele, Iammarino Marco <i>Development of a highly sensitivity analytical method for the determination of PAHs in baby food (meat puree) by optimized QuEChERS extraction and determination by GC/MS-MS</i>	272
19:15-19:30	Iammarino Marco, Berardi Giovanna, Ferrara Alfredo, Di Taranto Aurelia <i>High levels of nitrate in fresh meats: does nutrition play a role?</i>	081

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Session 19 Metagenomic approaches in animal science

Chairs: Buccioni Arianna – Conte Giuseppe

17:00	Palmonari Alberto, Federiconi Alessia, Ghiaccio Francesca, Buonaiuto Giovanni, Cavallini Damiano <i>Impact of dietary lipid source on fecal microbiota composition in dairy cows</i>	263
17:15	Giagnoni Lucia, Salza Sara, Melillo Rita, Piras Gabriella, Tondello Alessandra, Stevanato Piergiorgio, Cecchinato Alessio, Squartini Andrea, Tedde Tiziana, Mudadu Alessandro Graziano, Spanu Carlo <i>Study of microbial communities, pathogenic and emerging microorganisms in sheep's milk cheese processing facilities of Sardinia using a DNA metabarcoding approach</i>	085
17:30	Ferrari Carolina, Evangelista Chiara, Basiricò Loredana, Luziatelli Francesca, Ruzzi Maurizio, Bernabucci Umberto <i>Effects of environmental factors on milk microbiome</i>	099
17:45	Congiu Michele, Lourenco Jeferson, Cesarani Alberto, Macciotta Nicolò Pietro Paolo, Dimauro Corrado <i>Can we predict cattle future feed efficiency from faecal microbiome data collected at weaning?</i>	065
18:00	Federiconi Alessia, Ghiaccio Francesca, Cavallini Damiano, Palmonari Alberto <i>Changes of rumen microbiota composition in dairy cows fed with different lipid source</i>	202
18:15-18:30	Rimoldi Simona, Di Rosa Ambra Rita, Terova Genciana, Oteri Marianna, Saroglia Marco, Hasan Imam, Chiofalo Biagina <i>Effects of insect meal-based diets on growth, intestinal well-being and microbiota in Gilthead seabream (<i>Sparus aurata</i>)</i>	010

Thursday June 15th | Room Daunia

Session 20 Animal welfare and health

Chairs: Albenzio Marzia – Tarantola Martina

08:30	Di Vuolo Gabriele, Scali Federico, Romeo Claudia Rosa, Capelli Giovanna, Serrapica Maria, Ambra Chiara Denise, De Carlo Esterina, Alborali Giovanni Lorisi, Bertocchi Luigi, Vecchio Domenico <i>Linking Animal Welfare and Antibiotic Use in buffalo farms</i>	259
08:45	Bianco Emanuele, Trabacchin Veronica, Arango Sheyla, Guzzo Nadia, Simonetti Emilio, Zerbinati Elena, Rainis Simona <i>Evaluation of fecal and urinary excretion and behavior of Italian Simmental dairy cows during the access to exercise pasture for 2 and 4 hours per day</i>	403
09:00	Salzano Angela, Bifulco Giovanna, Piscopo Federica, Fioriniello Salvatore, Kosior Michael, Fiorino Ferdinando, Campanile Giuseppe <i>Influence of kisspeptin on buffalo superovulation</i>	484
09:15	Ciliberti Maria Giovanna, Valasi Irene, Bouroutzika Efterpi, Makri Sotiria, Kouretas Demetrios, Albenzio Marzia, della Malva Antonella, di Corcia Martina, Santillo Antonella, Marino Rosaria, Sevi Agostino, Caroprese Mariangela <i>Melatonin administration in heat stressed ewes: redox and immunity status of their offspring</i>	576
09:30	Mezzetti Matteo, Bencetti Fabio, Vercesi Alessandro, Minuti Andrea, Cattaneo Luca, Piccioli-Cappelli Fiorenzo <i>Effect of omitting dry period in Saanen and Alpine goats on metabolic profile and performance in the subsequent lactation</i>	540
09:45	Ripamonti Alice, Mantino Alberto, Casarosa Laura, del Tongo Alessio, Silvi Alina, Goracci Jacopo, Turini Luca, Mele Marcello <i>Growth rate and hair cortisol variation of beef cattle in pastoral and silvopastoral systems</i>	074
10:00	Ambra Chiara Denise, Lorenzi Valentina, Serrapica Maria, Di Vuolo Gabriele, Cappelli Giovanna, Fusi Francesca, Bertocchi Luigi, De Carlo Esterina, Romeo Claudia, Scali Federico, Vecchio Domenico <i>Linking Animal Welfare and Biosecurity, a case study in buffalo farms</i>	247
10:15-10:30	Chiattelli Diletta, Birolo Marco, Cartoni Mancinelli Alice, Menchetti Laura, Castellini Cesare <i>Assessing the motivation of Leghorn hens to access outdoor space and pasture resources</i>	501
11:00	Coffee break	

Thursday June 15th | Room Peucetia

Session 21 Sustainability and innovation in aquaculture

Chairs: Centoducati Gerardo – Parisi Giuliana

08:15	Sicuro Benedetto, Bakiu Rigers, Hala Edmond, Pesic Ana, Mandic Milica <i>The evolution of aquaculture in the Balkan region in the last 70 years</i>	597
08:30	Prete Andrea, Sist Paola, Tramer Federica, Centoducati Gerardo, Maggiolino Aristide, Deflorio Michele, Passamonti Sabina <i>Stress assessment in juvenile seabass (<i>Dicentrarchus labrax</i>) during transport density simulation</i>	590
08:45	Roncarati Alessandra, Galosi Livio, Arcangeli Giuseppe, Vetri Alessia, Tosi Federica, Gennari Lorenzo, Magi Gian Enrico <i>Growth performances in Cupped oysters (<i>Crassostrea gigas</i>) during prefattening stages in the Middle Adriatic Sea</i>	208
09:00	Foglio Luciano, Proietti Lorenzo, Galli Andrea, Aidos Lucia, Di Giancamillo Alessia, Mirra Giorgio, Paolacci Simona, Maguire Julie, Markou Giorgos, Alarcón Francisco Javier, Parati Katia <i>A promising mix of protein sources coming from biorefinery as partial replacement of dietary ingredients in aquafeed for Gilthead Sea Bream (<i>Spaetus aurata</i>) broodstock</i>	593
09:15	Bordignon Francesco, Fanizza Cecilia, Nicoletto Carlo, Maucieri Carmelo, Trocino Angela, Birolo Marco, Xiccato Gerolamo <i>Growth and quality of fish reared in halponics</i>	404
09:30	Fanizza Cecilia, Bordignon Francesco, Jover-Cerdá Miguel, Martínez-Llorens Silvia, Sánchez-Peñaanda David, Trocino Angela, Tomás-Vidal Ana <i>Digestibility of raw materials candidate for sustainable feed formulation in Mediterranean yellowtail (<i>Seriola dumerili</i>)</i>	405
09:45	Lira de Medeiros Adja Cristina, Faccenda Filippo, Pulido Rodriguez Lina Fernanda, Bruni Leonardo, Tignani Maria Vittoria, Secci Giulia, Parisi Giuliana <i>Quality of fillet from trout (<i>Oncorhynchus mykiss</i>) fed diets supplemented with olive pomace at two different levels</i>	414
10:00	Centoducati Gerardo, Deflorio Michele, Specchiulli Antonietta, Fanelli Giovanni, Fortunato Nicola, Mossa Michele, Ungaro Nicola, Carlucci Roberto, Albenzio Marzia, Grassi Giuseppe, Goffredo Elisa, Roma Rocco, Seccia Antonio, Petrosillo Irene <i>Towards sustainable marine spatial planning of aquaculture in Apulia Region</i>	493
10:15	Daniso Enrico, Uboni Costanza, Cardinaletti Gloriana, Garlatti Nicolas, Tibaldi Emilio, Luzzana Umberto, Tulli Francesca <i>Finishing diets to modulate flesh fatty acid composition and skin colour in gilthead seabream (<i>Sparus aurata</i>)</i>	514
10:30	Di Rosa Ambra Rita, Accetta Francesca, Arnone Rosangela, Aliquò Doriana, Chiofalo Biagina <i>Effect of <i>Hermetia illucens</i> meal on gilthead seabream (<i>Sparus aurata</i>) flesh sensory profile. An innovative approach using electronic senses and data fusion</i>	071
10:45	Rusco Giusy, Di Iorio Michele, Esposito Stefano, Antenucci Emanuele, Lerza Letizia, Roncarati Alessandra, Iaffaldano Nicolaia <i>The supportive breeding of native Mediterranean brown trout (LIFE Nat.Sal.Mo project, Molise region): the effect of ovarian fluid on frozen sperm motility parameters during artificial fertilization</i>	048
11:00	Coffee break	

Thursday June 15th | Room Messapia

Session 22

Advances in milk and dairy products quality

Sponsored by Consorzio per la Tutela del Formaggio Mozzarella di Bufala Campana D.O.P.

Chairs: **Di Trana Adriana Carmen - Martini Mina**

08:15	Sepe Lucia, Lovallo Carmela, De Martino Laura, De Feo Vincenzo <i>Cosmetics based on goat milk whey enriched by essential oils from Mediterranean bushes</i>	509
08:30	Salari Federica, Altomonte Iolanda, Sodi Irene, Martini Mina <i>Fatty acids and sterols composition of three commercial cow's milks</i>	021
08:45	Amalfitano Nicolò, Secchi Giorgia, Tagliapietra Franco, Lante Anna, Dettori Maria Luisa, Pazzola Michele, Vacca Giuseppe Massimo, Bittante Giovanni <i>Influence of single protein fractions on goat milk coagulation ability</i>	260
09:00	Franceschi Piero, Malacarne Massimo, Cipolat-Gotet Claudio, Evangelista Chiara, Basiricò Loredana, Bernabucci Umberto, Summer Andrea <i>Distribution of Zn, Fe and Cu and their relationships with milk quality in individual cow milk samples</i>	310
09:15	Malacarne Massimo, Franceschi Piero, Cipolat-Gotet Claudio, Evangelista Chiara, Basiricò Loredana, Bernabucci Umberto, Summer Andrea <i>Influence of content and distribution of Ca, P and Mg on rennet coagulation properties in individual cow milk samples</i>	315
09:30	Tognocchi Monica, Giannerini Fabiola, Villani Fabio, Silvi Alina, Macchi Mirco, Guidi Ilaria, Durani Cinzia, Serra Andrea, Mele Marcello, Conte Giuseppe <i>Effect of bactofugation on milk and Pecorino cheese quality</i>	057
09:45	Ponte Marialetizia, Maniaci Giuseppe, Pipi Marianna, Gannuscio Riccardo, Busetta Gabriele, Gaglio Raimondo, Settanni Luca, Alabiso Marco, Todaro Massimo, Bonanno Adriana, Di Grigoli Antonino <i>Dehydration preserves the ability of tanniferous sulla forage (<i>Sulla coronaria</i> (L.) Medik.) to improve nutritional, microbial and sensory traits of sheep cheese</i>	551
10:00	Nudda Anna, Guiso Maria Francesca, Sanna Gavino, Deroma Mario, Tsiplakou Eleni <i>Essential and Toxic Mineral Content of Colostrum and Milk in Dairy Sheep</i>	548
10:15	Di Paolo Marika, Casalino Loriana, Mazzocca Roberta, Bettua Giuseppe, D'Anza Emanuele, Peretti Vincenzo, Ciotola Francesca, Marrone Raffaele <i>Effect of ripening time on chemical-nutritional quality of the traditional Pecorino Bagnoles cheese</i>	552
10:30	Niero Giovanni, Penasa Mauro, De Marchi Massimo <i>Quantification and variation of lactoferrin in cow milk assessed through radial immunodiffusion technique</i>	033
10:45	Varricchio Marialuisa, Barone Carmela Maria Assunta, Scalera Grazia, Grasso Fernando, Sarubbi Fiorella, Pacelli Corrado, Di Francia Antonio <i>Does the use of ensiled forage affect the sensory properties of fresh cheese?</i>	159
11:00	Cappelli Giovanna, Di Vuolo Gabriele, Vecchio Domenico, Grassi Carlo, Bufano Francesca, Noschese Rosario, Capacchione Roberta, De Carlo Esterina <i>Buffalo milk in Italy and the traceability system</i>	212
11:15	Coffee break	

Thursday June 15th | Room Apulia

Session 23

New paradigms in animal breeding

Chairs: **Ciampolini Roberta - Landi Vincenzo**

08:15	INVITED LECTURE Lourenco Daniela <i>Are there benefits in using sequence data for genomic predictions?</i>	
08:45	Cimmino Roberta, Goméz Carpio Mayra, Rossi Dario, Gombia Yuri, Zullo Gianluigi, Biffani Stefano <i>Genetic aspects of longevity in Italian Mediterranean Buffalo</i>	252
09:00	Carta Antonello, Usai Mario Graziano, Casu Sara, Salaris Sotero <i>Implications on Heritability Estimates of Blending the G Matrix with Different Levels of the Pedigree Matrix in a Nucleus Flock of Dairy Sheep</i>	217
09:15	Punturiero Chiara, Bernini Francesca, Milanesi Raffaella, Strillacci Maria Giuseppina, Bagnato Alessandro <i>The Use of Genomics in Dairy Cow Farming – results from the GENORIP project</i>	411

09:30	Negro Alessio, Biffani Stefano, Cortellari Matteo, Bionda Arianna, Cesarani Alberto, Fresi Pancrazio, Macciotta Nicolò Pietro Paolo, Grande Silverio, Crepaldi Paola <i>Estimation of Breeding Values in Italian dairy goats: from BLUP to ssGBLUP</i>	334
09:45	Altieri Damiano, Biffani Stefano, Goméz Carpio Mayra, Carnovale Francesca, Rossi Dario, Gombia Yuri, Di Palo Rossella <i>Preliminary investigation on stayability in Italian Mediterranean Buffalo</i>	571
10:00	Callegaro Simone, Tiezzi Francesco, Fabbri Maria Chiara, Bozzi Riccardo <i>Different methods to handle preferential treatment in slaughter age in Italian Limousine</i>	180
10:15	Macciotta Nicolò Pietro Paolo, Degano Lorenzo, Vicario Daniele, Ceserani Alberto <i>A transgenerational study on the effect of birth month of female ancestor on lactation curves of Italian Simmental cattle</i>	584
10:30	Persichilli Christian, Karaman Emre, Finocchiaro Raffaella, Pilla Fabio, Fabris Anna, Visentin Giulio, Cassandro Martino <i>Study of fertility traits in Italian Jersey Cattle</i>	563
10:45	Sartori Cristina, Tuliozi Beniamino, Mancin Enrico, Gomez-Proto Guido, Mantovani Roberto <i>How mum and pen mates affect my growth: maternal effects and indirect genetic components on growth traits in young bulls at performance testing station</i>	399
11:00	Coffee break	

Thursday June 15th | Room Daunia

Session 24 Advances in rabbit and poultry products

Chairs: Bovera Fulvia - Soglia Francesca

11:30	INVITED LECTURE Stadnika Katarzyna <i>Technologies applied in embryonated eggs</i>	
12:00	Peng Meng, Açıar Samil, Bieseck Jakub, Banaszak Miroslaw, Tavaniello Siria, Maiorano Giuseppe <i>Influence of rearing system and hen age on fatty acid composition of egg yolk</i>	574
12:15	Trabalza-Marinucci Massimo, Ranucci David, Galarini Roberta, Branciari Raffaella, Acuti Gabriele <i>Egg production and egg quality in free-range laying hens as affected by dietary polyphenols from olive mill wastewaters</i>	397
12:30	Biasato Ilaria, Bellezza Oddone Sara, Cerutti Gian Luca, Renna Manuela, Xiccato Gerolamo, Trocino Angela, Perano Danilo, Caimi Christian, Brugiapaglia Alberto, Gasco Laura <i>Mulberry leaf meal as alternative feed ingredient in rabbit nutrition: preliminary results about productive performance and meat quality</i>	121
12:45	D'Amico Francesco, Casalino Gaia, Schiavitto Michele, Dimuccio Michele Maria, Camarda Antonio, Romito Diana, Circella Elena <i>In vitro efficacy of Phyto-L against Enteropathogenic Escherichia coli strains of rabbits from industrial farms</i>	581
13:00-13:15	Bordini Martina, Soglia Francesca, Zappaterra Martina, Davoli Roberta, Sirri Federico, Meluzzi Adele, Petracci Massimiliano <i>Evaluation of the expression level of genes coding for Collagen type 4 in Pectoralis major muscles belonging to meat-type chickens selected for different growth-rates</i>	345
13:30	Lunch	

Thursday June 15th | Room Peucetia

Session 25 L.E.O. project: the Italian research commitment for the future wild stock strategies

Sponsored by A.I.A.

Chairs: Donda Mauro - Negrini Riccardo

11:30	INVITED LECTURE Burke Martin, Roalkvam Tone, van der Linde Rene <i>ICAR Harmonisation of Sustainability related Milk Traits</i>	
12:00	Milanesi Marco, Pietrucci Daniele, Vignali Giovanni, Chandramouli Balasubramanian, Mancini Marco, Renzi Francesco, Valentini Riccardo, Santini Monia, Negrini Riccardo, Chillemi Giovanni <i>Contrasting climate change effects on dairy cattle through Machine Learning approach</i>	300

12:15	Pascarella Lorenzo, Fioretti Mauro, Melilli Caterina, Biffani Stefano, Negrini Riccardo Results from Italian National Breeders Association (AIA) nationwide collection of setting and efficiency parameters in milking systems of Italian dairy farms	113
12:30	Luisi Federica, Fioretti Mario, Moliso Mesfin Mekonnen, Tondo Alessia, Negrini Riccardo Estimating enteric methane emission in dairy cows exploiting longitudinal data measured on single animal and at farm level to refine IPCC equations	143
12:45	Tolone Marco, Mastrangelo Salvatore, Sadina Maria Teresa, Scatassa Maria Luisa, Rizzuto Ilaria, Riggio Silvia, Moscarelli Angelo, Portolano Baldassare Differential somatic cell count as indicator of intramammary infection in dairy sheep	072
13:00	Riggio Silvia, Di Gerlando Rosalia, Tolone Marco, Rizzuto Ilaria, Moscarelli Angelo, Portolano Baldassare, Mastrangelo Salvatore, Sardina Maria Teresa Maedi Visna virus infection and TMEM154 genotypes in Valle del Belice sheep breed	510
13:15	Morelli Daniela, Di Domenico Marco, Marcacci Maurilia, Cammà Cesare, Averaimo Daniela, Vincifori Giacomo, Iannetti Simona, Ricchiuti Luciano, Radomsky Nicolas, Costarelli Silva, Pezzotti Giovanni Illumina Ampliseq approach for multi-pathogen detection	588
13:30	Pascarella Lorenzo, De Renzis Maurizio, Melilli Caterina, Fioretti Mauro, Luisi Federica, Negrini Riccardo LEO livestock national bio-repository: a tool for the conservation of Italian livestock genetic diversity	589
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Thursday June 15th | Room Messapia

Session 26 Advances in milk and dairy products quality

Chairs: Maggiolino Aristide – Summer Andrea

11:30	Lopez Annalaura, Moretti Vittorio Maria, Ratti Sabrina, Rossi Raffaella, Bellagamba Federica A comparison of the nutritional quality and sensory properties of commercial milk with different labeled production systems	191
11:45	Cipolat-Gotet Claudio, Summer Andrea, Ceresa Paolo, Molle Arnaud Paul J., Mariani Elena, Stocco Giorgia Fourier transform infrared spectroscopy of milk as a tool for monitoring efficiency in the Parmigiano Reggiano PDO production	273
12:00	Stocco Giorgia, Mariani Elena, Abblondi Michela, Biffani Stefano, Grande Silverio, Summer Andrea, Biagini Domenico, Cipolat-Gotet Claudio The role of Comisana and Massese breeds on cheese-making efficiency and daily cheese production	299
12:15	Rocchetti Gabriele, Ghilardelli Francesca, Carboni Eliana, Atzori Alberto Stanislao, Masoero Francesco, Gallo Antonio Milk metabolome reveals pyrimidine and its degradation products as the discriminant markers of different corn silage-based nutritional strategies	009
12:30	Natrella Giuseppe, Maggiolino Aristide, De Palo Pasquale, Pedota Giuseppina, Faccia Michele Survey on milk quality at late lactation and presence of ancient Zebu whey protein marker in Podolic cattle of Basilicata region	483
12:45	Natrella Giuseppe, Gambacorta Giuseppe, Faccia Michele Effect of <i>aS1</i> casein level on stretchability of goat curd	485
13:00	Giannuzzi Diana, Vanzin Alice, Toscano Alessandro, Bisutti Vittoria, Pegolo Sara, Cecchinato Alessio Associations between the detailed milk mineral profile and total and differential cell count in Holstein Friesian dairy cows	488
13:15	Capitanio Fabian, Cascone Ilaria, Pugliano Mariagiulia, Luongo Flavio, D'Anza Emanuele, Rossetti Alberto, Albarella Sara, Ciotola Francesca, Peretti Vincenzo Livestock biodiversity and endogenous area development: The POD "Provolone del Monaco" model	447
13:30	Lunch	

Thursday June 15th | Room Apulia

Session 27

Genomic tools for ruminant resiliency

Sponsored by Zoetis

Chairs: Lasagna Emiliano – Sacchi Paola

11:30	INVITED LECTURE Di Croce Fernando, Fessenden Brenda, Layfield Michael, Weigel Daniel, Pisoni Giuliano, Wijma Robert Precision Ag comes to dairy: Genomics tools to improve profit, environmental footprint, and cow wellbeing	
12:00	Mancin Enrico, Sartori Cristina, Gomez Guido, Mantovani Roberto Environmental variation of milk production: an effective indicator of genetic and genomic animal resilience	409
12:15	Ferrari Valentina, Visentin Giulio, van Kaam Jan-Thijs, Penasa Mauro, Marusi Maurizio, Finocchiaro Raffaella, Cassandro Martino Genetic aspects of heifer fertility in Italian Holstein population	036
12:30	Fabris Anna, Tiezzi Francesco, Finocchiaro Raffaella, Marusi Maurizio, Cassandro Martino Preliminary genetic analysis for survival in Italian Jersey	037
12:45	Buonaiuto Giovanni, Lopez-Villalobos Nicolas, Costa Angela, Formigoni Andrea, Visentin Giulio Effect of morphological characteristics and productive traits on the survival of dual-purpose Simmental cows	041
13:00-13:15	Pegolo Sara, Giannuzzi Diana, Bisutti Vittoria, Ramirez Mauricio Marco Aurelio, Macedo Mota Lucio Flavio, Ajmone Marsan Paolo, Trevisi Erminio, Cecchinato Alessio Genetic parameters for blood indicators of metabolic distress and milk traits in dairy cattle	066
13:30	Lunch	

Thursday June 15th | Room Daunia

Session 28

Recent advances in mammary gland biology and health

Chairs: Caroprese Mariangela - Lacetera Nicola

14:30	Zappaterra Martina, Zanna Martina, Nanni Costa Leonardo, Padalino Barbara Application of infrared thermography for detection of udder health disorders in dairy cattle	015
14:45	Bobbo Tania, Matera Roberta, Neglia Gianluca, Gomez Mayra, Cimmino Roberta, Manunza Arianna, Biffani Stefano What do we know about differential somatic cell count in buffaloes?	329
15:00	Turini Luca, Bonelli Francesca, Senatore Elena, Roncoroni Cristina, Sgorbini Micaela, Silvi Alina, Conte Giuseppe, Mele Marcello Relationships between on-farm animal welfare assessment, milk yield and quality in dairy cows	069
15:15	Vanzin Alice, Battisti Ilaria, Franchin Cinzia, Bisutti Vittoria, Toscano Alessandro, Giannuzzi Diana, Masi Antonio, Arrigoni Giorgio, Gallo Luigi, Cecchinato Alessio, Pegolo Sara Mass spectrometry-based characterization of the bovine milk peptidome upon <i>Streptococcus agalactiae</i> and <i>Prototheca</i> spp. infection	123
15:30	Bisutti Vittoria, Mach Nuria, Giannuzzi Diana, Vanzin Alice, Capra Emanuele, Cecchinato Alessio, Pegolo Sara Transcriptomic and phenomic data integration to identify markers of subclinical mastitis in Holstein cattle	125
15:45	Mondini Sara, Tamburini Alberto, Palladini Nicola Maria, Bava Luciana Differential somatic cell count during lactation in dairy cattle herds from northern Italy	482
16:00	Matera Roberta, Conte Giuseppe, Cotticelli Alessio, Pascarella Lorenzo, Tondo Alessia, De Luise Luca, Campanile Giuseppe Milking parameters related to mammary gland health and milk characteristics in Italian Mediterranean buffalo	431
16:15-16:30	Mecocci Samanta, Pietrucci Daniele, Milanesi Marco, Capomaccio Stefano, Evangelista Chiara, Basiricò Loredana, Bernabucci Umberto, Chillemi Giovanni, Cappelli Katia Transcriptomic characterization of water buffalo's Extracellular Vesicles from colostrum and milk for their Immunomodulatory Potential	130
17:00	Coffee break	

Thursday June 15th | Room Peucetia

Session 29

Sustainable feeding strategies in livestock systems

Sponsored by Mignini & Petrini

Chairs: Pinotti Luciano – Masucci Felicia

14:30	INVITED LECTURE Pulina Giuseppe, Correddu Fabio, Caratzu Maria Francesca, Lunesu Mondina Francesca Livestock sustainability, the four slices of the same pie	
15:00	Oteri Marianna, Scordia Danilo, Armone Rosangela, Costale Annalisa, Meineri Giorgia, Gresta Fabio, Chiofalo Biagina A sustainable alternative grain legume for livestock: agronomic and nutritional traits of three lupin (<i>Lupinus spp.</i>) species	030
15:15	Braidot Matteo, Sarnataro Chiara, Fabro Carla, Spanghero Mauro <i>In vitro</i> evaluation of sodium nitrate as a rumen methane reducer	358
15:30	Battelli Marco, Colombini Stefania, Crovetto Gianni Matteo, Galassi Gianluca, Manfredi Maria Teresa, Rapetti Luca Quebracho condensed tannins fed to lactating goats: effect on methane production	325
15:45	Vastolo Alessandro, Formato Marialuisa, Piccolella Simona, Calabò Serena, Pacifico Severina, Cutrignelli Monica Isabella Evaluation of the effect of leaf extracts from deciduous trees (<i>Castanea sativa</i> , <i>Fagus sylvatica</i> and <i>Quercus robur</i>) on ruminal fermentation	178
16:00	Scicutella Federica, Mannelli Federica, Daghio Matteo, Azim Khalid, Toni Elisabetta, Viti Carlo, Buccioni Arianna Mediterranean agro-industrial by-products as ingredients in a sustainable feeding strategy for dairy sheep: an <i>in vitro</i> trial to evaluate rumen ecosystem	489
16:15	Piccioli-Cappelli Fiorenzo, Moschini Maurizio, Frolidi Federico, Bani Paolo, Müller Isabel, Tamassia Luis, Bulgarelli Paolo, Trevisi Erminio Effects of 3-nitrooxypropanol (3-NOP, Bovaer®10) on methane emission and productive performance of mid-lactating dairy cows fed a typical diet for Grana Padano cheese-making	491
16:30	Massaro Selene, Andersen Jonas Bylov Hedegaard, Franciosi Elena, Tagliapietra Franco Alpine herbs affect rumen <i>in vitro</i> degradability and methane emissions	079
16:45	Caturano Costantino, Tremonte Patrizio, Lombardi Silvia Jane, Fatica Antonella, Sorrentino Elena, Coppola Raffaele, Salimei Elisabetta Use of lactic acid bacteria in forage production of Alto Sannio area	245
17:00	Romanzin Alberto, Braidot Matteo, Sarnataro Chiara, Fabro Carla, Spanghero Mauro <i>In vitro</i> rumen methane production is not affected by the feeding efficiency of donor bulls	160
17:15	Coffee break	

Thursday June 15th | Room Messapia

Session 30

Precision livestock farming: production efficiency and environmental impacts

Chairs: Mattiello Silvana - Neglia Gianluca

14:30	INVITED LECTURE Rosa Guilherme, Hernandez Laura, Dorea Joao R. R. Digital technologies and Machine learning: A new way to look at novel traits at spatial and temporal dimensions	
15:00	Casu Sara, Usai M. Graziano, Salaris Sotero, Caredda Marco, Addis Margherita, Carta Antonello Phenotypic Analysis of Ovine Milk Infrared Spectra	193
15:15	Cartoni Mancinelli Alice, Chiattelli Diletta, Menchetti Laura, Bernacchia Gianmaria, Castellini Cesare Preliminary validation of Ultra-Wide Band device as an innovative tool to assess chicken behaviour	499
15:30	Pietrucci Daniele, Milanesi Marco, Chandramouli Balasubramanian, Vignali Giovanni, Negrini Riccardo, Macini Marco, Santini Monia, Chillemi Giovanni Identification of the most impacting environmental variables on dairy cows milk yield using Machine Learning methods	324
15:45	Lazzari Andrea, Brambilla Massimo, Giovinazzo Simone, Calcante Aldo, Giannini Alessandro Antonio, Bisaglia Carlo Automation to support rationing of dairy and beef cattle: comparisons and practical examples of application	133
16:00	Caré Sara, Migliorati Luciano, Abeni Fabio, Pirlo Giacomo Expectation from precision livestock farming (PLF) in reducing environmental impact of dairy farms	424
16:15-16:45	INVITED LECTURE O'Brien Bernadette Precision technologies and smart dairy farming in extensive pasture based systems	
17:00	Coffee break	

Thursday June 15th | Room Apulia

Session 31 Genomic tools for ruminant resiliency

Chairs: Bozzi Riccardo – Pasquini Marina

14:30	INVITED LECTURE Lecchi Cristina Bovine extracellular vesicles: a new challenge for animal science	
15:00	Gómez Mayra, Cimmino Roberta, Rossi Dario, Zullo Gianluigi, Biffani Stefano Genomic regions associated with Somatic Cell Score in Italian Mediterranean Buffalo	220
15:15	Salaris Sotero, Usai Mario Graziano, Casu Sara, Carta Antonello Genetic Relationships between Milk Production and Impacting Diseases in breeding Sheep	221
15:30	Ramirez Diaz Johanna, Manunza Arianna, Rincon Florez Juan Carlos, Alvarez Luz Angela, Ciappesoni Gabriel, Peraza Pablo, Barreto Mourao Gerson, Arranz Jose, Freire Fernando, Cozzi Paolo, Stella Alessandra Looking for the genes involved in local adaptation in sheep	342
15:45	Capomaccio Stefano, Milanesi Marco, Vajana Elia, Bomba Lorenzo, Chillemi Giovanni, Ajmone Marsan Paolo, Colli Licia BITE v.2: a user friendly R package for genomic analysis	372
16:00	Ben Jemaa Slim, Tolone Marco, Sardina Maria Teresa, Chessari Giorgio, Di Gerlando Rosalia, Portolano Baldassare, Mastrangelo Salvatore A genome-wide comparison between unselected and selected Valle del Belice sheep reveals selection signatures related to production traits	415
16:15- 16:30	Rossoni Attilio, Nicoletti Chiara, Vevey Mario, Santus Enrico Integration between genomic and microsatellite analysis for the parentage verification	442
17:00	Coffee break	

Friday June 16th | Room Daunia

Session 32 Animal welfare and health

Chairs: Di Palo Rossella - Santillo Antonella

08:30	Ciarelli Claudia, Pillan Giulio, Bordignon Francesco, Xiccato Gerolamo, Pirrone Fabrizio, Ghiro Franco, Trocino Angela Space use by laying hens in a cage-free system: effect of genotype and enrichment with perches	453
08:45	Poulopoulou Ioanna, Zanon Thomas, Alrhoun Mousaab, Katzenberger Katja, Holighaus Louis, Gauly Matthias Assessment of dairy farm welfare using a benchmarking tool	464
09:00	Crosetto Riccardo, Sartore Stefano, Ponzio Patrizia, Macchi Elisabetta, Mioletti Silvia, Miniscalco Barbara, Sicuro Benedetto, Tarantola Martina, Mugnai Cecilia Grey Piedmont's rabbit welfare evaluation in three housing systems	526
09:15	Benitez Mora Maria Paz, Longobardi Valentina, Piscopo Federica, Esposito Riccardo, Bifulco Giovanna, Salzano Angela Effect of pomegranate extract on post-thawed sperm quality	433
09:30	Torsiello Benedetta, Giammarino Mauro, Battaglini Luca, Battini Monica, Mattiello Silvana, Quatto Piero, Renna Manuela Evaluation of inter-observer reliability of animal-based welfare indicators in the case of trichotomous variables with two or more observers	008
09:45	Lanzoni Lydia, Waxenberg Kaia, Ramsey Rachael, Rees Robert Martin, Bell Julian, Vignola Giorgio, Atzori Alberto Stanislao The environmental cost of impaired welfare in dairy sheep farming	043
10:00	Zanon Thomas, Gauly Matthias Walking distance and maintenance energy requirements of sheep during mountain pasturing (transhumance)	054
10:15- 10:30	Colombini Stefania, Menni Giorgio, Pavesi Martina, Battelli Marco, Xiaoxia Dai, Galassi Gianluca, Crovetto Gianni Matteo, Rapetti Luca Effect of a blend of essential oil on in vitro rumen fermentation for SARA prevention	295
11:00	Coffee break	

Friday June 16th | Room Peucetia

Session 33

Development of genomics in biodiversity

Chairs: Biffani Stefano – Cipolat-Gotet Claudio

08:30	INVITED LECTURE Laloë Denis, Jaffrézic Florence, Zerjal Tatiana, Rau Andrea Old wine in new bottles: Factorial analyses in the age of multi-omics	
09:00	Strillacci Maria Giuseppina, Bernini Francesca, Punturiero Chiara, Vevey Mario, Blanchet Veruska, Bagnato Alessandro Structural Variation in the Aosta cattle breed	410
09:15	Bernini Francesca, Punturiero Chiara, Bagnato Alessandro, Milanesi Raffaella, Vevey Mario, Blanchet Veruska, Strillacci Maria Giuseppina A Genome Wide Association Study in the Aosta Cattle population	413
09:30	Pauciullo Alfredo, Versace Carmine, Gaspa Giustino, Cosenza Gianfranco A functional polymorphism influencing the promoter activity of alpaca α -lactalbumin gene (LALBA)	188
09:45	Cortellari Matteo, Negro Alessio, Bionda Arianna, Fresi Pancrazio, Grande Silverio, Crepaldi Paola Effect of artificial insemination on genomic population structure in Camosciata delle Alpi dairy goat breed	240
10:00	Dadousis Christos, Ablondi Michela, Cipolat-Gotet Claudio, van Kaam Jan-Thijs, Finocchiaro Raffaella, Marusi Maurizio, Cassandro Martino, Sabbioni Alberto, Summer Andrea The effect of ancestral and SNP panel genotyping on genomic inbreeding coefficients from imputed SNP in Holstein-Friesian dairy cows	283
10:15	Manunza Arianna, Ramirez Diaz Johanna, Zamora Bustillo Roberto, Ciappesoni Gabriel, Peraza Pablo, Lenstra Johannes A., Estrada Reyes Zaira, Arranz Santos Juan José, Revelo Cuaspud Herman Alberto, Rincon Flórez Juan Carlos, Stella Alessandra About the origin of traditional sheep breeds from South America: a comprehensive investigation	346
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Companion animals

Chairs: Cutrignelli Monica – Stefanon Bruno

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General Information

Congress dates

13th June (Tuesday) – 16th June (Friday) 2023

Venue

Torre Cintola Resort, Monopoli (BA)

Parking

Congress participants will have the opportunity to park free of charge inside Torre Cintola Resort.

Secretariat and Registration desk times during the Congress

Tuesday 13th June	14.00 – 19.00
Wednesday 14th June	08.00 – 19.00
Thursday 15th June	08.00 – 19.00
Friday 16th June	08.00 – 12.00

Registration

The registration fee includes:

- Admission to the Scientific Sessions and the Exhibition Area
- Conference kit
- Abstract collection, available online as a supplement of the "Italian Journal of Animal Science"
- Opening Ceremony and Welcome Cocktail on Tuesday 13th June
- Apulian typical dinner on Wednesday 14th June at Torre Cintola Resort
- Coffee breaks and lunches as shown in the programme
- Certificate of attendance

Badge

All participants will receive a badge, which they are requested to wear during all Congress activities to be admitted to the scientific sessions and to the social programme.

Tyvek bracelets

All participants and all the registered accompanying persons will dress the bracelet for getting access to coffee breaks, welcome cocktail, lunches and Apulian dinner.

Language

The official languages of the Congress are English and Italian.
Slides for oral presentations and posters are in English only.
Simultaneous translation will not be provided.

WiFi

Free WiFi connection at the Congress venues: Torre Cintola
Password: torrecintola

Mobile phones, photo and video

Participants are requested to keep their mobile phones switched off (or set to silent mode) in the session rooms. Photography and video recordings are strictly prohibited during all scientific sessions.

Opening Ceremony

The Opening Ceremony will take place on Tuesday 13th June 2023 at Torre Cintola Resort and will be followed by a Welcome Cocktail.

Working lunches

On Wednesday 14th and Thursday 15th June working lunches will be served from 13.30 to 14.30 at Torre Cintola Resort.

Social dinner

The Social Dinner will be held on the evening of Thursday 15th June at Tenuta Monacelle, Fasano (BR). A transfer service by private bus will be organized, with departure at 20.00 from Torre Cintola Resort.

Provided services

A biberon-feeding service is guaranteed during the Congress half an hour before lunch.

3rd edition of the “ASPA Young Researchers Competition – Oral Presentations”

To promote and stimulate young researchers, the Animal Science and Production Association (ASPA), in collaboration with the Italian Journal of Animal Science (IJAS) and with the economic support of the Organizing Committee of the 25th ASPA Congress (2023), organizes the third edition of the “ASPA Young Researchers Competition - Oral Presentations” with the aim to select the best 5 papers as oral communications at the 25th ASPA Congress. The awarding of the best communications is scheduled for the 15th June at 18.00.

3rd edition of the “ASPA Young Researchers Competition – Posters”

To promote and stimulate young researchers, the Animal Science and Production Association (ASPA), in collaboration with the Italian Journal of Animal Science (IJAS) and with the economic support of the Organizing Committee of the 25th ASPA Congress (2023), organizes the third edition of the “ASPA Young Researchers Competition - Poster Presentations” with the aim to select the best 5 papers as Poster communications at the 25th ASPA Congress. The awarding of the best communications is scheduled for the 15th June at 18.00.

Photo Exhibition

Photos of marginal areas, rural environments, native breeds of Southern Italy (Apulia and Molise) will be displayed in the conference rooms.

Authors: **Pilla Fabio, Colarocchio Nunzio, Rocco Giorgio, Geraci Luigi**

Monopoli

Monopoli (from the Greek “monos” and “polis”) means unique city and certainly it is still faithful to its name.

Indeed, the city retains intact the charm that comes from its history and traditions. A city of nearly 50,000 inhabitants, 43 km southeast of Bari on the Adriatic coast. It borders with the towns of Polignano a Mare, Conversano, Castellana-Grotte, Alberobello and Fasano.

Monopoli stretches along 15 km of low, indented coastline, with numerous coves with evocative names and long sandy shores that are a safe landing place for tourists for their vacations.

The medieval center, characterized by churches and convents, rises again today thanks to major restoration works, such as the complex of fortifications (walls and castle), the Romanesque Church of Santa Maria Amalfitana and the sumptuous Baroque Cathedral. The rural territory, consisting of as many as 99 districts, covers an area of more than 150 square kilometers of great natural, scenic and cultural interests.

There are in fact numerous fortified “Masserie” (centers for agricultural activities) also dating back to Roman times, rock churches, “trulli”, beautiful neoclassical villas and farmhouses.

Monopoli's major tourist attractions include Roman (Egnatia), Byzantine (rock frescos), Longobard, Norman (farmhouses, masserie, fortresses) and Hispanic (Castle of Charles V) monuments.

Shuttle bus to and from airport

From Airport to Monopoli:

Monday 12th at 19:00

Tuesday 13th June at 12:00 and 18:00

Wednesday 14th June at 12:00

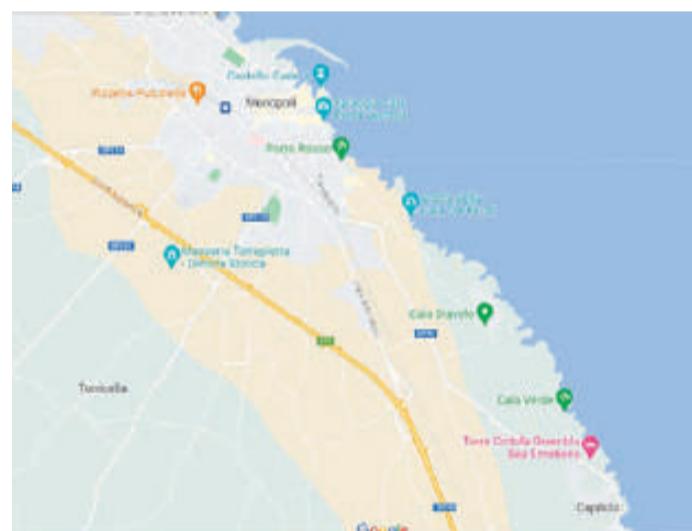
From Monopoli to Airport:

Thursday 15th June at 16:00

Friday 16th June at 14:00

Please reserve until the 10th June

Where to have dinner



It is possible to reserve the dinner for Tuesday and Thursday night, directly in Torre Cintola Resort. The resort is located in "Capitolo", a locality in the municipality of Monopoli, in the metropolitan city of Bari. It is known to be one of the main tourist areas of Monopoli, as well as its seaside resort per excellence.

During the summer period, it is a place full of clubs and beach lidos, active even in the evening, which can offer tourists the opportunity to have lunch and dinner directly on the beach.

It is located 3 km far away from Monopoli City center which is also full of restaurants and clubs that can offer lunches and dinners of all kinds, types and tastes.

For participants interested to dinner on Monday night or for the lunch of Friday, it is possible to reserve directly in Torre Cintola Resort.

Bus Service

To reach Monopoli during the ASPA Congress it will be possible to get on the city bus just at the entrance of Torre Cintola Resort from 8.00 to 23.00 every 45 minutes. On the registration desk it is possible to have the exact city bus timetable.

Other Services

Details on other services provided by Torre Cintola Resort (swimmimg pool, beach, etc.) can be obteined from the reception.





25th Congress

ASPA2023

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