



ASPA 25th Congress Book of Abstract

Pasquale De Palo

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Italian Journal of Animal Science

The *Italian Journal of Animal Science* is an international peer-reviewed open access journal publishing original scientific papers, reviews and short communications.

The journal serves as essential reading for animal scientists, technicians and all those who research animal production.

The journal encourages submissions of international relevance on the following subjects:

- Animal derived food quality and safety
- Animal genetics and breeding
- Aquaculture, poultry, companion and wild game animals
- Livestock systems, management and environment
- Non-ruminant or ruminant nutrition and feeding
- Production physiology and functional biology of farmed, companions and wild game animals.
- Animal behavior
- Animal welfare
- In vitro studies that have an application to farmed livestock

Manuscripts must address topics based on research at molecular, cellular, organ, whole animal and production system levels. Manuscripts discussing milk or meat analysis and compositions must show a direct link to either livestock production system, product quality, animal feeding/nutrition, animal genetics or breeding. Manuscripts describing laboratory animal models will be considered where the study highlights a potential benefit to farmed livestock.

Submissions discussing epidemiology, parasitology, infective diseases, food-borne diseases do not fit with the aims and scope of the journal.

Meeting reviews, book reviews and conference supplements are also published, as well as news and guidelines from the Animal Science and Production Association (ASPA). We welcome submissions from ASPA members and non-members alike.

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ASPA 25th Congress

Monopoli (BARI - ITALY), June 13-16, 2023

Guest Editors

**D'Alessandro Angela Gabriella, De Palo Pasquale, Maggiolino Aristide,
Mele Marcello**

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ASPA 25th Congress

Monopoli (BARI - ITALY), June 13-16, 2023

#ASPA2023

ASPA 25th Congress Book of Abstract

The 25th congress of the Animal Science and Production Association

“Animal Production Science: Innovations and sustainability for future generation” is under patronage of Loghi patrocini

**Monopoli (BARI - ITALY),
June 13-16, 2023**

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Torre Cintola Natural Sea Emotions

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The 25th Congress of the Animal Science and Production Association (ASPA) is hosted in Monopoli (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) 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 467 scientific contributions: 297 oral presentations and 170 posters have been selected. This is a very great result! The highest number of contributions of ever, according to our best knowledge. Moreover, 24 invited lectures will be presented.

The congress has implemented concrete actions for improving its sustainability, like the dematerialization of the posters (available through a smartphone app and on touch screen desks), the increasing of the use of public transportations, the donation of leftover food to charities, as well as the increased use of 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 23 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 meeting 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 thank 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



ASPA 25th Congress

Monopoli (BARI - ITALY), June 13-16, 2023

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Program at a glance

Tuesday June 13th



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

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

Thursday June 15th

	Room Daunia	Room Peucetia	Room Messapia	Room Apulia
	<p>08:30 - 10:30 Animal welfare and health <i>Session 20</i></p> <p>Chairs: Albenzio M., Tarantola M.</p>	<p>08:15 - 11:00 Sustainability and innovation in aquaculture <i>Session 21</i></p> <p>Chairs: Centoducati G., Parisi G.</p>	<p>08:15-11:15 Advances in milk and dairy products quality <i>Session 22</i></p> <p>Chairs: Di Trana A.C., Martini M.</p>	<p>08:15 - 11:00 New paradigms in animal breeding <i>Session 23</i></p> <p>Invited: Lourenco Daniela Chairs: Ciampolini R., Landi V.</p>
11:00 – 11:30	<i>Coffee break</i>			
	<p>11:30 - 13:15 Advances in rabbit and poultry products <i>Session 24</i></p> <p>Invited: Stadnicka Katarzyna Chairs: Bovera F., Soglia F.</p>	<p>11:30 - 13:45 L.E.O. project: the Italian research commitment for the future livestock strategies <i>Session 25</i></p> <p>Invited: Burke Martin Chairs: Donda M., Negrini R.</p>	<p>11:30 - 13:30 Advances in milk and dairy products quality <i>Session 26</i></p> <p>Chairs: Maggiolino A., Summer A.</p>	<p>11:30 - 13:15 Genomic tools for ruminant resiliency <i>Session 27</i></p> <p>Invited: Di Croce Fernando Chairs: Lasagna E., Sacchi P.</p>
13:30 – 14:30	<i>Lunch</i>			
	<p>14:30 - 16:30 Recent advances in mammary gland biology and health <i>Session 28</i></p> <p>Chairs: Caroprese M., Lacetera N.</p>	<p>14:30 - 17:15 Sustainable feeding strategies in livestock systems <i>Session 29</i></p> <p>Invited: Pulina Giuseppe Chairs: Pinotti L., Masucci F.</p>	<p>14:30 - 16:45 Precision Livestock Farming: production efficiency and environmental impacts <i>Session 30</i></p> <p>Invited: Rose Guilherme O'Brien Bernardette Chairs: Mattiello S., Neglia G.</p>	<p>14:30 - 16:30 Genomic tools for ruminant resiliency <i>Session 31</i></p> <p>Invited: Lecchi Cristina Chairs: Bozzi R., Pasquini M.</p>
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
	<p>08:30 - 10:30 Animal welfare and health <i>Session 32</i></p> <p>Invited: Laloë Denis Chairs: Di Palo R., Santillo A.</p>	<p>08:30 - 11:00 Development of genomics in biodiversity <i>Session 33</i></p> <p>Invited: Laloë Denis Chairs: Biffani S., Cipolat-Gotet C.</p>	<p>08:15 - 11:00 Companion animals <i>Session 34</i></p> <p>Invited: Switonsky Marek Chairs: Cutrignelli M., Stefanon B.</p>	<p>08:00 - 11:00 Sustainable feeding strategies in livestock systems <i>Session 35</i></p> <p>Invited: Atzori Alberto Stanislao Chairs: Di Francia A., Bailoni L.</p>
11:00 - 11:30	<i>Coffee break</i>			
	<p>11:30 - 13:30 Research and sustainability in horse production <i>Session 36</i></p> <p>Invited: Vial Céline Chairs: Salimei E., Capomaccio S.</p>	<p>11:30 - 13:15 Insects' production for animal feeding <i>Session 37</i></p> <p>Chairs: Chiofalo B., Gasco L.</p>	<p>11:30 - 13:30 Advances in dietary feed supplementation <i>Session 38</i></p> <p>Chairs: Trabalza Marinucci M., Nudda A.</p>	<p>11:30 - 13:15 Genomic tools for animal resiliency and susceptibility <i>Session 39</i></p> <p>Invited: Vergani Andrea Mario Chairs: Bagnato A., Sartori C.</p>

ASPA 25th Congress

Monopoli (BARI – ITALY), June 13–16, 2023

Italian Journal of Animal Science 2023; volume 22, supplement S1

ORAL SESSIONS

Tuesday, June 13th – Room Daunia

Session 01 – Chicken biodiversity

Chairs:	Iaffaldano Nicolaia – Schiavone Achille	
14:30	INVITED LECTURE <u>Cerolini Silvia</u> <i>Advancement in conservation programs of Italian poultry genetic resources for rural development</i>	
15:00	<u>Marelli Stefano Paolo</u> , Zaniboni Luisa, Madeddu Manuela, Mangiagalli Maria Grazia, Tognoli Cristina, Cerolini Silvia <i>Behavioural characterization of two local Italian chicken breeds</i> O369	
15:15	<u>Cendron Filippo</u> , Cassandro Martino, Penasa Mauro <i>Copy number variants in 23 Italian local chicken breeds</i> O481	
15:30	<u>Di Iorio Michele</u> , Iaffaldano Nicolaia, Rusco Giusy, Antenucci Emanuele, Madeddu Manuela, Zaniboni Luisa, Marelli Stefano Paolo, Cerolini Silvia <i>Phenotypic characterization of semen production and quality in Italian chicken and turkey breeds</i> O090	
15:45	<u>Madeddu Manuela</u> , Zaniboni Luisa, Marelli Stefano Paolo, Di Iorio Michele, Iaffaldano Nicolaia, Mangiagalli Maria Grazia, Cerolini Silvia <i>Variability in semen freezability within an Italian chicken breed</i> O115	
16:00	<u>Cappone Eleonora</u> , Soglia Dominga, Sartore Stefano, Zambotto Valeria, Maione Sandra, Profiti Margherita, Bongiorno Valentina, Gariglio Marta, Cerolini Silvia, Schiavone Achille <i>Millefiori Piemontese, genetic characterization of an endangered local chicken breed</i> O203	
16:15	<u>Piscitelli Raffaella</u> , Zampiga Marco, Cartoni Mancinelli Alice, Brugaletta Giorgio, Castellini Cesare, Petracci Massimiliano, Sirri Federico <i>Comparison of productive traits and egg quality characteristics of two Italian chicken breeds and their crossbreeds reared in enriched-cage and free-range systems</i> O359	
16:30	<u>Angelucci Elisa</u> , Mattioli Simona, Cartoni Mancinelli Alice, Dal Bosco Alessandro, Ciarelli Claudia, Guarino Amato Monica, Failla Sebastiana, Castellini Cesare <i>Assessment of muscle metabolism in differently kinetic chicken genotypes using the Activity Index ...</i> O500	
16:45	<u>Perini Francesco</u> , Wu Zhou, Cartoni Mancinelli Alice, Mattioli Simona, Soglia Dominga, Schiavone Achille, Mugnai Cecilia, Castellini Cesare, Smith Jacqueline, Lasagna Emiliano <i>RNAseq reveals modulation of genes involved in fatty acid biosynthesis in chicken liver according to genetic background, sex and diet</i> O354	
17:00	<i>Coffee Break</i>	



Tuesday, June 13th – Room Peucetia

Session 02 – Environmental Footprint

Chairs:	Sevi Agostino – Zucali Maddalena Enrica
14:30	<u>Romanzin Alberto</u> , Braidot Matteo, Sarnataro Chiara, Fabro Carla, Spanghero Mauro <i>In vitro rumen methane production is not affected by the feeding efficiency of donor bulls</i> O160
14:45	<u>Primi Riccardo</u> , Ripert Stefano, Viola Paolo, Rossi Carlo Maria, Danieli Pier Paolo, Ronchi Bruno <i>Trend in management scenarios of smallholder livestock farming systems affects ecosystem services: a landscape perspective from Campo di Segni (Lazio, Central Italy)</i> O126
15:00	<u>Marchesini Giorgio</u> , Fossaluzza Davide, Andrighetto Igino <i>Discriminating between limiting and reducing factors in dairy farms through yield gap analysis</i> O522
15:15	<u>Xavier Vergé</u> , Paul Robin, Nadège Edouard, Valentina Becciolini, Adam Cieslak, Malgorzata Szumacher, Lena Fehmer, Paul Galama, Violeta Juškiene, Gitana Kadziene, Diana Ruska <i>Development of a screening method for GHG and NH₃ measurements – First results based on a European study</i> O460
15:30	<u>Vaiani Sergio</u> <i>An agronomic-food strategy to improve the environmental impact in terms of water saving and food efficiency</i> O505
15:45	<u>Karatosidi Despoina</u> , 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> O559
16:00	<u>Fatica Antonella</u> , Giovanditti Anna Concetta, Fantuz Francesco, Salimei Elisabetta <i>Carbon footprint of intensive vs. extensive dairy farming in Gargano area</i> O243
16:15	<u>Finocchiaro Raffaella</u> , Galluzzo Ferdinando, van Kaam Jan-Thijs, Cassandro Martino <i>Predicted methane emission a new breeding value for the Italian Holstein</i> O477
17:00	Coffee Break

Tuesday, June 13th – Room Messapia

Session 03 – Advances in dietary feed supplementation

Chairs:	Calabrò Serena – Trabalza Marinucci Massimo
14:30	<u>Frazzini Sara</u> , Reggi Serena, Pavlovic Radmila, Canala Benedetta, Torresani Claudia Maria, Resca Rita, Rossi Luciana <i>Characterization of major algal species and their prebiotic potential</i> O355
14:45	<u>Negrini Clara</u> , Luise Diana, Correa Federico, Amatucci Laura, Viridis 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> O347
15:00	<u>Dell'Anno Matteo</u> , 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> O339
15:15	<u>Correa Federico</u> , Luise Diana, Negrini Clara, Viridis Sara, Amatucci Laura, Dalcanale Simone, Olia Alessandro, Del Zozzo 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> O343
15:30	<u>Ferlisi Flavia</u> , De Ciucis Chiara Grazia, Fruscione Floriana, Mecocci Samanta, Cappelli Katia, Razuoli 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> O132
15:45	<u>Lanzoni Davide</u> , Rebucci Raffaella, Cheli Federica, Baldi Antonella, Giromini Carlotta <i>Functional in vitro characterization of hemp seeds for nutritional applications</i> O537
16:00	<u>Sandrini Silvia</u> , 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> O097

16:15	<u>Bee Giuseppe</u> <i>Effect of nutrient self-supply through choice feeding on growth performance, feeding behavior</i> O473
17:00	<i>Coffee Break</i>

Wednesday, June 14th – Room Daunia

Session 04 – Environmental footprint

Sponsored by IGreen Innovation

Chairs:	Bernabucci Umberto - Sepe Lucia
08:15	INVITED LECTURE <u>Kuipers Abele</u> , Galama Paul <i>Innovative practices and techniques dealing with the environmental impact of livestock farms</i>
08:45	<u>Lunesu Mondina Francesca</u> , Caratzu Maria Francesca, Nudda Anna, Battaccone Gianni, Pulina Giuseppe <i>Net carbon footprint of Sardinia Beef Cow-Calf system</i> O496
09:00	<u>Gislon Giulia</u> , 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> O479
09:15	<u>Finocchi Matteo</u> , Moretti Michele, Mantino Alberto, Ripamonti Alice, Mele Marcello <i>GIS model application for the assessment of nitrogen emissions from cattle</i> O141
09:30	<u>Grossi Giampiero</u> , 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> O209
09:45	<u>Vitali Andrea</u> , 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> O214
10:00	<u>Bragaglio Andrea</u> , 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> O585
10:15	<u>Caratzu Maria Francesca</u> , Lunesu Mondina Francesca, Nudda Anna, Battaccone Gianni, Correddu Fabio, Massidda Andrea, Gamberoni Alberto, Pulina Giuseppe <i>Suckling lamb as net-zero product in Sardinian dairy sheep farms</i> O527
10:30	<u>Correddu Fabio</u> , Cadau Giordana, Carta Silvia, Cesarani Alberto, Congiu Michele, Macciotta Nicolò Pietro Paolo <i>Predicting enteric methane emission of dairy sheep using milk fatty acid profiles</i> O293
10:45	<u>Cavallini Damiano</u> , Buonaiuto Giovanni, De Matos Vettori Julio, Fusaro Isa, Formigoni Andrea <i>Methane emission pattern in dairy cows evaluated in automatic milking system</i> O307
11:00	<i>Coffee break</i>

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 <u>Salem Abdel Fattah Zeidan</u> , Vazquez Mendoza Oscar Vicente, Elghandour Mona M.M.Y., De Palo Pasquale, Maggiolino Aristide <i>Feed additives in ruminants feeding: Update knowledge with focusing on natural additives</i>
09:00	<u>Greco Roberta</u> , De Palo Pasquale, Maggiolino Aristide, Mulè Giuseppina, Ferrara Massimo <i>Effects of nucleotides and yeast supplementation on gut microbial population of calves</i> O587
09:15	<u>Sgarro Maria Federica</u> , Vaiani Sergio, Palazzo Clemente, Di Marziantonio Pietro, Maggiolino Aristide, De Palo Pasquale <i>Effect of a diatomaceous-based dietary additive on milk production, antioxidant status and immune response during peripartum in buffaloes</i> O591



09:30	<u>Foggi Giulia</u> , Rocchetti Gabriele, Amarie Roxana Elena, Campidonico Luca, Agnolucci Monica, Gallo Antonio, Tognocchi Monica, Silvi Alina, Buccioni Arianna, Mele Marcello <i>Can olive cake by-products be employed to produce silage with enhanced nutrition characteristics?</i>	O148
09:45	<u>Salimei Elisabetta</u> , Castoria Raffaello, Tremonte Patrizio, Lombardi Silvia Jane, Caturano Costantino, Ianiri Giuseppe, Palmieri Davide, Conte Thomas, Fatica Antonella <i>Ensilaged tobacco cv. Solaris biomass: chemical, microbiological, phytopathological and nutritional characteristics</i>	O264
10:00	Fumo Valentina, <u>Meli Giovanna</u> , Scicutella Federica, Invernizzi Guido <i>Camelina sativa and Cynara cardunculus cakes supplementation on performance and milk composition in dairy goats during the transition period</i>	O419
10:15	<u>Scaglia Elena</u> , Reggi Serena, Ferri Irene, Frazzini Sara, Dell'Anno Matteo, Rossi Luciana <i>Effect of milk replacer supplemented with Ascophyllum nodosum on gut health of Holstein calves</i>	O536
10:30	<u>Sfulcini Marta</u> , Cattaneo Luca, Lopreiato Vincenzo, Berelli Marco, Cagnassi Enrica, Castellani Elena, Piccioli Fiorenzo, Trevisi Erminio, Minuti Andrea <i>Effect of yeast supplementation with Saccharomyces Cerevisiae fermentation products (SCFP) on performance and metabolic profile in suckling Holstein calves</i>	O524
10:45	<u>Amato Annalisa</u> , Oteri Marianna, Cavallo Carmelo, Bonacci Sonia, Chiofalo Vincenzo, Liotta Luigi <i>Evaluation of fatty acids profile of milk produced by mid-lactating Holstein cows fed with enriched olive cake diet</i>	O151
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 <u>Giordano Julio O.</u> <i>Improving dairy herd monitoring and management using automated monitoring technologies</i>	
09:00	<u>Fiorelli Erica</u> , Atzori Alberto Stanislao, Tedeschi Luis, Cattellani Alessandro, Gallo Antonio <i>A dynamic mechanistic model to forecast the oscillatory feeding behaviour of lactating dairy cows</i> ...	O407
09:15	<u>Zucali Maddalena</u> , Bianchi Maria Cecilia, Gislone Giulia, Bonizzi Serena, Sandrucci Anna <i>How much is the environmental benefit of using Precision Livestock Farming in Italian dairy farms?</i>	O241
09:30	<u>Confessore Andrea</u> , Aquilani Chiara, Fuchs Patricia, Probo Massimiliano, Pauler Caren M., Schneider Manuel, Argenti Giovanni, Pugliese Carolina <i>Does age affect learning capacity and grazing activities of Holstein cows managed with Virtual Fencing collars?</i>	O313
09:45	<u>Abeni Fabio</u> , Marino Rosanna, Petrera Francesca, Canevaro Greta, Richichi Mariantonietta, Carminati Domenico, Giraffa Giorgio, Barzaghi Stefania, Benedino Dario, Tidona Flavio <i>Effects of different automated feeding management on milk traits and rumination time of dairy cows during hot season</i>	O418
10:00	<u>Giovinazzo Simone</u> , Brambilla Massimo, Lazzari Andrea, Bisaglia Carlo <i>NIR spectrophotometric investigation to highlight early signs of ketosis in dairy cows</i>	O189
10:15	Celozzi Stefania, Calcante Aldo, Pavesi Martina, Mattiello Silvana, Mazzocchi Chiara, Corsi Stefano, Zannotti Michele, Zucali Maddalena, <u>Battini Monica</u> <i>From tie-stall to loose house with Automatic Milking Robot in dairy cow systems: economic, production and animal welfare implications</i>	O530
10:30	Ranzato Giovanna, Aernouts Ben, Lora Isabella, Ben Abdelkrim Ahmed, Adriaens Ines, Gote Martin Julius, Cozzi Giulio <i>Comparison of different methods to estimate dairy cows' production potential</i>	O451
10:45	<u>Costa Angela</u> , Cavallini Damiano, Mammi Ludovica, Visentin Giulio, Formigoni Andrea <i>Assessment and validation of individual water intake of dairy cows from reticular boluses</i>	O274
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 <u>Hanotte Olivier</u> <i>The known and unknown African cattle genomes</i>	
09:00	<u>Chessari Giorgio</u> , Criscione Andrea, Crepaldi Paola, Marletta Donata, Portolano Baldassare, Biscarini Filippo, Mastrangelo Salvatore <i>Mapping of Heterozygosity-Rich Regions in Italian and Worldwide goat populations</i>	O064
09:15	<u>Moscarelli Angelo</u> , Chessari Giorgio, Tolone Marco, Criscione Andrea, Zumbo Alessandro, Rizzuto Ilaria, Riggio Silvia, Macaluso Vito, Portolano Baldassare, Sardina Maria Teresa, Mastrangelo Salvatore <i>Genomic tools for the characterization of the not officially recognized livestock populations: a case study in Mascaruna goat and Pecora Nera sheep from Sicily</i>	O513
09:30	<u>Bionda Arianna</u> , Cortellari Matteo, Lopreiato Vincenzo, Crepaldi Paola, Chiofalo Vincenzo, Liotta Luigi <i>Genomic characterization of the Comune di Sicilia goat, a local Sicilian genetic resource</i>	O285
09:45	<u>Gomez Proto Guido</u> , Mancin Enrico, Tuliozi Beniamino, Sartori Cristina, Mantovani Roberto <i>Genome-wide association analysis of productive traits in grey alpine cattle breed</i>	O556
10:00	<u>Di Civita Marika</u> , Senczuk Gabriele, Rillo Luigina, Macciocchi Alessandra, Occidente Mariaconsiglia, Saralli Giorgio, D’Onofrio Valentina, Galli Tiziana, Persichilli Christian, Di Giovannantonio Claudio, Pilla Fabio, Matassino Donato <i>Genomic profiling of several Lazio Indigenous goat breeds in the Italian context</i>	O371
10:15	<u>Barbato Mario</u> , 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. <i>Assessing signatures of selection and climate adaptation in European and African livestock</i>	O427
10:30	<u>Somenzi Elisa</u> , Partel Erika, Barbato Mario, Chero Osorio Ana Maria, Colli Licia, Franceschi Niccolò, Pilla Fabio, Komjanc Matteo, Achilli Alessandro, Hauffe Heidi Christine, Ajmone Marsan Paolo <i>Genetic diversity and runs of homozygosity in Rendena Cattle</i>	O507
10:45	<u>Senczuk Gabriele</u> , Di Civita Marika, Persichilli Christian, Destro Bisol Giovanni, Anagnostou Paolo, Pilla Fabio <i>On the road to domestication: a preliminary comparative genomics approach to reconstruct human and livestock correlates</i>	O568
11:00	Coffee break	

Wednesday, June 14th – Room Daunia

Session 08 – Environmental Footprint

Chairs:	Claps Salvatore – Sandrucci Anna	
11:30	<u>Martinic Oliver</u> , Magrin Luisa, Dante Simone, Cozzi Giulio, Gottardo Flaviana <i>Product Environmental Footprint (PEF) as evaluation tool of environmental sustainability in beef cattle farms</i>	O337
11:45	<u>Meo Zilio David</u> , Steri Roberto, Iacurto Miriam, Cenci Francesco, La Mantia Maria Chiara, Chiariotti Antonella <i>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 Agridigit Project</i>	O361
12:00	<u>Mantino Alberto</u> , Ripamonti Alice, Tranchina Margherita, Villani Ricardo, Finocchi Matteo, Mele Marcello <i>Agroforestry to support carbon-neutral dairy productions in Tuscany</i>	O553
12:15	<u>Salimei Elisabetta</u> , Colombo Claudio, Di Iorio Erika, Manzo Alessio, Miraglia Nicoletta, Fatica Antonella <i>A holistic characterization of pasture area of Centre-South Italy</i>	O267
12:30	<u>Berton Marco</u> , Schiavon Stefano, Gallo Luigi <i>Environmental footprint of heavy pig production system</i>	O032



12:45	Benedetti Del Rio Elena, Ramanzin Maurizio, Raniolo Salvatore, <u>Sturaro Enrico</u> <i>The value of sheep transhumance for rural landscape: a GPS tracking approach</i> O062
13:00	<u>Biagini Davide</u> <i>Evaluate, drive and communicate the sustainability of complex systems: a proposal</i> O269
13:15	<u>Ghiaccio Francesca</u> , Federiconi Alessia, Colleluori Riccardo, Canestrari Giorgia, Palmonari Alberto <i>Assessment of individual dairy cows in vitro rumen methane emissions</i> O306
13:30	Lunch

Wednesday, June 14th – Room Peucetia

Session 09 – Sustainable feeding strategies in livestock system

Sponsored by Plantamura

Chairs:	Bonanno Adriana - Tufarelli Vincenzo
11:30	<u>Mazzoleni Sharon</u> , 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> O107
11:45	<u>Virdis Sara</u> , 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> O357
12:00	<u>Luise Diana</u> , 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> O353
12:15	<u>Evangelista Chiara</u> , Basiricò Loredana, Galli Tiziana, Bruni Gianpaolo, Bernabucci Umberto <i>Relationship between feeding management and milk characteristics in dairy buffalo</i> O112
12:30	<u>Silvi Alina</u> , 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> O060
12:45	<u>Kiatti Dieu donné</u> , Vastolo Alessandro, Koura Bossima Ivan, Cutrignelli Monica Isabella, Vitaglione Paola, Calabrò Serena <i>Cashew (<i>Anacardium occidentale L.</i>) apple by-products: a promising feed in animal nutrition</i> O093
13:00	<u>Lambiase Claudia</u> , Serrapica Francesco, Braghieri Ada, Riviezi Amelia, Di Matteo Roberto, Masucci Felicia <i>The inclusion of hemp (<i>Cannabis sativa L.</i>) cake in laying hen diets influences yolk fatty acid profile and sensory quality during the shelf life of eggs</i> O154
13:15	<u>Fatica Antonella</u> , Fantuz Francesco, Sacchetto Carlo, Ferro Antonio, Zullo Tullio, Salimei Elisabetta <i>Tobacco cv. Solaris seed cake in the diet of growing beef calves</i> O238
13:30	Lunch

Wednesday, June 14th – Room Messapia

Session 10 – Animal Welfare and Health

Sponsored by A.R.A. Puglia

Chairs:	Trevisi Erminio – Gottardo Flaviana
11:30	INVITED LECTURE <u>Chebel Ricardo C.</u> , Schuenemann Gustavo M., Shearer Jan <i>US Welfare Standards: Investing in Animal Welfare Pays Off</i>
12:00	<u>Cecchinato Alessio</u> , 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> O494

12:15	<u>Cattaneo Luca</u> , 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> O452
12:30	<u>Catellani Alessandro</u> , Minuti Andrea, Trevisi Erminio, Gallo Antonio <i>Transition period for Brown Swiss and Holstein dairy cows: feeding behavior and metabolic status</i> ... O521
12:45	<u>Fossaluzza Davide</u> , Marchesini Giorgio <i>Management of dairy heifers: can operant conditioning decrease stress and ease animals' monitoring and manipulation?</i> O523
13:00	<u>Pulido-Rodriguez Lina Fernanda</u> , 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 Campione del Garda (Salmo carpio) both considering animal welfare and flesh quality during storage</i> O543
13:15	<u>Florit Eleonora</u> , Romanzin Alberto, Spanghero Mauro <i>Could eating time be a useful indicator in dairy farm management?</i> O215
13:30	Lunch

Wednesday, June 14th – Room Apulia

Session 11 – Advances in meat quality

Sponsored by Siciliani

Chairs:	Marino Rosaria – Mele Marcello
11:30	INVITED LECTURE <u>Gagaoua Mohammed</u> <i>Building better knowledge on meat quality determination through integrated data mining and curation of proteomics studies</i>
12:00	<u>Bordini Martina</u> , 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> O345
12:15	<u>Forte Lucrezia</u> , 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> O586
12:30	<u>Aquilani Chiara</u> , 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> O139
12:45	<u>Valenti Bernardo</u> , 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> O265
13:00	<u>Mattioli Simona</u> , 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> O026
13:15	<u>Castro Ndong Ncogo Nchama</u> , Saccà Elena, Brunner Ilario, Sepulcri Angela, Corazzin Mirco, Piasentier Edi <i>Pork characteristics of Mangalitza pigs reared outdoors</i> O538
13:30	<u>Piscopo Nadia</u> , Di Paolo Marika, Casalino Lorian, 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> O550
13:45	Lunch



Wednesday, June 14th – Room Daunia

Session 12 – Advances in rabbit and poultry products

Chairs:	Maiorano Giuseppe – Trocino Angela	
14:30	<u>Serra Valentina</u> , Castrica Marta, Agradi Stella, Curone Giulio, De Bellis Roberta, Pastorelli Grazia <i>Antioxidant enzyme activity of rabbits fed dietary bovine colostrum supplementation</i>	O312
14:45	<u>Pitino Rosario</u> , Simoni Marica, Danese Tommaso, Mantovani Giorgia, Kyriakaki Panajota, Tsiplakou Eleni, Righi Federico <i>Use of natural antioxidants in poultry diet balanced for antioxidant capacity</i>	O441
15:00	<u>Birolo Marco</u> , Trocina Angela, Gratta Francesco, Zuffellato Andrea, Xiccato Gerolamo <i>Feed restriction strategies in growing rabbits fed post-weaning diets with different protein levels</i>	O578
15:15	<u>Mannelli Federica</u> , Daglio 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>	O028
15:30	<u>Perricone Vera</u> , 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>	O051
15:45	<u>Guerrini Alessandro</u> , Zago Massimo, Tedesco Doriana E.A. <i>Effects of Citrus aurantium dulcis essential oil and Yucca schidigera saponins on broiler performance and health</i>	O070
16:00	<u>Srikanthithasan Karthika</u> , 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>	O029
16:30	Coffee break	

Wednesday, June 14th – Room Peucetia

Session 13 – Genomic tools for ruminant resiliency

Chairs:	Pilla Fabio – Crepaldi Paola	
14:30	INVITED LECTURE <u>Miglior Filippo</u> , Baes Christine <i>Leveraging genomics to achieve dairy net zero</i>	
15:00	<u>Cesarani Alberto</u> , Lourenco Daniela, Degano Lorenzo, Vicario Daniele, Macciotta Nicolò Pietro Paolo <i>Different strategies for selecting core animals in the APY for single-step GBLUP</i>	O076
15:15	<u>Giovannini Samira</u> , Negro Alessio, Lasagna Emiliano, Giontella Andrea, Grande Silverio, Sarti Francesca Maria <i>The ability of udder linear morphological evaluation to predict milk production in Massese and Comisana sheep</i>	O181
15:30	Tiezzi Francesco, Biffani Stefano, Fabbri Maria Chiara, Crovetto Alessandro, <u>Bozzi Riccardo</u> <i>Genomic selection for stay-ability in Italian Limousine and Charolais</i>	O185
15:45	<u>Pugliano Mariagiulia</u> , Nowacka-Woszek Joanna, Longobardi Valentina, Stachowiak Monika, Peretti Vincenzo, Szczerbal Izabela, Ciotola Francesca, Switonski Marek, Albarella Sara <i>MBL2 gene polymorphisms in Mediterranean Italian River Buffalo (Bubalus bubalis) in relation to milk production traits</i>	O436
16:00	<u>Colli Licia</u> , Correddu Fabio, Palazzo Mariantonietta, Somenzi Elisa, Eufemi Elisa, Cesarani Alberto, Zedda Marco, Macciotta Nicolò Pietro Paolo <i>An ancient DNA perspective on the genomic variation of present day Sardinian Cattle</i>	O374
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 <u>Dahl Geoffrey E.</u> <i>Late gestation heat stress programs reduced performance and survival phenotype in dairy cattle</i>
15:00	<u>Sirtori Francesco</u> , Fabbri Maria Chiara, Parrini Silvia, Crovetto Alessandro, Messeri Alessandro, Mancini Marco, Bozzi Riccardo <i>Precision livestock farming to control changes in behavior and production in dairy cows based on variations in environmental THI</i> O528
15:15	<u>Laloë Denis</u> , Biscarini Filippo, Mastrangelo Salvatore, Senczuk Gabriele, Persichilli Christian, Conte Giuseppe, Finocchiaro Raffaella, Van Kaam Jan Thijs, Benzoni Lorenzo, Ciampolini Roberta, Cassandro Martino <i>Integrative factorial methods to explore the relationships between genotypes, phenotypes and climate in Holstein cows</i> O470
15:30	<u>Cresci Roberta</u> , Atamer Balkan Büsra, Tedeschi Luis Orlindo, Atzori Alberto Stanislao <i>Modeling heat flows in heat-stressed dairy cows using System Dynamics techniques</i> O394
15:45	<u>Magrin Luisa</u> , Fabbri Giorgia, Prevedello Paola, Concheri Gianmaria, Gottardo Flaviana <i>Testing of a pilot system for the automatic monitoring of activity and body temperature of beef cattle</i> O335
16:00	<u>Martinez-Marin Gustavo</u> , Bittante Giovanni, Toledo-Alvarado Hugo <i>Modelation of the effect of heat stress on milk yield and milk composition in purebred and crossbred cows</i> O542
16:15	<u>Carta Silvia</u> , Correddu Fabio, Peana Ilaria, Fois Giuliano, Cesarani Alberto, Macciotta Nicolò Pietro Paolo <i>Effect of THI on milk composition and fatty acid profile of Sarda dairy sheep</i> O234
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 <u>Lourenco Jeferson Menezes</u> <i>Unravelling the Complexity of Animal-Microbe Interactions</i>
15:00	<u>Maltecca Christian</u> , Tiezzi Francesco <i>Microbial and genomic information synergistically contribute to predicting swine performance across production systems</i> O487
15:15	<u>Florida Viviana</u> , 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> O146
15:30	<u>Amarie Roxana Elena</u> , 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> O506
15:45	<u>Toscano Alessandro</u> , 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> O124
16:00	<u>Raspa Federica</u> , Chessa Stefania, Moretti Riccardo, Ferrocino Ilario, Corvaglia Maria Rita, Coccolin 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> O297
16:15	<u>Tiezzi Francesco</u> , Maltecca Christian <i>Use of gut microbiota as a selection tool in swine</i> O579
16:30	Coffee break



Wednesday, June 14th – Room Daunia
Session 16 – New perspective in bees' production

Chairs:	Fontanesi Luca – Minozzi Giulietta	
17:00	<u>Lazzari Filippo</u> , 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>	O205
17:15	Danieli Pier Paolo, <u>Lazzari Filippo</u> , 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>	O200
17:30	<u>Coppola Francesca</u> , 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>	O166
17:45	<u>Manganello Federico</u> , 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>	O134
18:00	<u>Coppola Francesca</u> , 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>	O165
18:15	<u>Taurisano Valeria</u> , Ribani Anisa, Utzeri Valerio Joe, Sami Dalal, Johnson Kate, Fontanesi Luca <i>An over-time distribution map of Apis mellifera mitotypes in Italy constructed using an environmental DNA approach</i>	O225

Wednesday, June 14th – Room Peucetia
Session 17 – Breeding for our Future
Sponsored by FEDANA

Chairs:	Campanile Giuseppe – Martelli Giovanna	
17:00	INVITED LECTURE <u>Cassandro Martino</u> <i>Rethinking Breeding Strategies in Livestock species</i>	
17:10	<u>Benzoni Lorenzo</u> , Tiezzi Francesco, Finocchiaro Raffaella, Galluzzo Ferdinando, Cassandro Martino <i>Genetic parameters of growth, feed efficiency and greenhouse gases emissions in Italian Holstein young bulls</i>	O457
17:15	<u>Benzoni Lorenzo</u> , Finocchiaro Raffaella, Niero Giovanni, Invernizzi Guido, Savoini Giovanni, Galluzzo Ferdinando, Cassandro Martino <i>Animal breeding sustainability: the Italian Holstein experience</i>	O458
17:20	<u>Biffani Stefano</u> , Gómez Mayra, Cimmino Roberta, Rossi Dario, Zullo Gianluigi, Negrini Riccardo, Cesarani Alberto <i>Experiences with a single-step genome evaluation in Italian Mediterranean Buffalo</i>	O236
17:25	<u>Bertolini Francesca</u> , Bovo Samuele, Schiavo Giuseppina, Ballan Mohamad, Cappelloni Manolo, Tinarelli Silvia, Gallo Maurizio, Fontanesi Luca <i>Signatures of selection in Italian heavy pigs: how genetic programs for PDO ham productions are shaping the genomes of cosmopolitan breeds</i>	O255
17:30	<u>Schiavo Giuseppina</u> , Bovo Samuele, Bertolini Francesca, Bolner Matteo, Ribani Anisa, Taurisano Valeria, Dall'Olio Stefania, Bonacini Massimo, Fontanesi Luca <i>Reconstructing pedigree information in the Reggiana cattle breed based on high density SNP data</i>	O244
17:40	<u>Degano Lorenzo</u> , Vicario Daniele, Romanzin Alberto, Cesarani Alberto <i>Selection for feed efficiency in Italian Simmental breed</i>	O580
17:45	Ablondi Michela, <u>Asti Vittoria</u> , Capomaccio Stefano, Sartori Cristina, Giontella Andrea, Cappelli Katia, Mantovani Roberto, Silvestrelli Maurizio, Sabbioni Alberto <i>Inbreeding and genetic diversity in Italian horse heritage</i>	O379

17:50	Ablondi Michela, Cipolat-Gotet Claudio, Stocco Giorgia, Crepaldi Paola, Cortellari Matteo, Negro Alessio, Summer Andrea, <u>Biffani Stefano</u> <i>How to combine microsatellite and SNP for parentage verification in sheep?</i>	O377
17:55	<u>Callegaro Simone</u> , Biffani Stefano, Tiezzi Francesco, Fabbri Maria Chiara, Bozzi Riccardo <i>Impact of heat stress on growth of Italian Limousine and Charolais</i>	O195
18:00	<u>Sbarra Fiorella</u> , Quaglia Andrea, Bittante Giovanni, Mantovani Roberto <i>Genetics of udder volume and maternal ability in Italian beef cattle</i>	O019

Wednesday, June 14th – Room Messapia

Session 18 – Advances in meat quality

Chairs:	De Marchi Massimo – Serra Andrea	
17:00	<u>Tavaniello Siria</u> , Zejnelhoxha Sanije, Viegas Olgas, Pinto Edgar, Ferreira Isabel M.L.P.V.O, Maiorano Giuseppe <i>Effect of different doses of Vitamin E added to beef patties on the formation of Polycyclic aromatic hydrocarbons</i>	O569
17:15	Berardi Giovanna, Di Taranto Aurelia, Vita Valeria, <u>Iammarino Marco</u> <i>Study of nitrite and nitrate residual levels in meat products after different types of cooking treatment</i>	O082
17:30	della <u>Malva Antonella</u> , Gagaoua Mohammed, Santillo Antonella, Priolo Alessandro, di Corcia Martina, Marino Rosaria, Ciliberti Maria Giovanna, Caroprese Mariangela, Sevi Agostino, Albenzio Marzia <i>Plasma proteome, a non-invasive biofluid to monitor lamb meat quality</i>	O116
17:45	<u>Soglia Francesca</u> , Babini Elena, Mazzoni Maurizio, Petracci Massimiliano <i>Collagen and extracellular matrix composition of chicken breast meat affected by growth-related abnormalities</i>	O229
18:00	<u>Baldi Giulia</u> , Zampiga Marco, Soglia Francesca, Gagliano Mara Antonia, Petracci Massimiliano, Sirri Federico <i>Microalgae as alternative protein source to soybean: effects on the main quality traits of broiler breast meat</i>	O109
18:15	<u>Huerta Almudena</u> , Trocino Angela, Pirrone Fabrizio, Bordignon Francesco, Xiccato Gerolamo, Birolo Marco <i>Technological and sensorial meat quality of broiler chickens: effect of genotype and heat stress</i>	O454
18:30	<u>Polidori Paolo</u> , Cammertoni Natalina, Vincenzetti Silvia <i>Mule carcass characteristics and meat quality</i>	O577
18:45	<u>Frongia Andrea</u> , Acciario Marco, Manca Carla, Pintone Andrea, Picconi Stefano, Sitzia Maria <i>Heavy lamb production as a way to differentiate dairy sheep livestock system</i>	O583
19:00	Nardelli Valeria, <u>Ingegno Mariateresa</u> , Della Rovere Ines, Chiappinelli Andrea, Casamassima Francesco, Tomaouolo 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>	O272
19:15	<u>Iammarino Marco</u> , Berardi Giovanna, Ferrara Alfredo, Di Taranto Aurelia <i>High levels of nitrate in fresh meats: Does nutrition play a role?</i>	O081

Wednesday, June 14th – Room Apulia

Session 19 – Metagenomic approaches in animal science

Chairs:	Buccioni Arianna – Conte Giuseppe	
17:00	<u>Palmonari Alberto</u> , Federiconi Alessia, Ghiaccio Francesca, Buonaiuto Giovanni, Cavallini Damiano <i>Impact of dietary lipid source on fecal microbiota composition in dairy cows</i>	O263
17:15	<u>Giagnoni Lucia</u> , 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>	O085



17:30	<u>Ferrari Carolina</u> , Evangelista Chiara, Basiricò Loredana, Luziatelli Francesca, Ruzzi Maurizio, Bernabucci Umberto <i>Effects of environmental factors on milk microbiome</i> O099
17:45	<u>Congiu Michele</u> , 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> O065
18:00	<u>Federiconi Alessia</u> , Ghiaccio Francesca, Cavallini Damiano, Palmonari Alberto <i>Changes of rumen microbiota composition in dairy cows fed with different lipid source</i> O202

Thursday June 15th – Room Daunia

Session 20 – Animal welfare and health

Chairs:	Albenzio Marzia – Tarantola Martina
08:30	<u>Di Vuolo Gabriele</u> , 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> O259
08:45	<u>Bianco Emanuele</u> , 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> O403
09:00	Salzano Angela, Bifulco Giovanna, Piscopo Federica, Fioriniello Salvatore, Kosior Michael, Fiorino Ferdinando, Campanile Giuseppe <i>Influence of kisspeptin on buffalo superovulation</i> O484
09:15	<u>Ciliberti Maria Giovanna</u> , 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> O576
09:30	Mezzetti Matteo, Bencetti Fabio, Vercesi Alessandro, Minuti Andrea, Cattaneo Luca, <u>Piccioli-Cappelli Fiorenzo</u> <i>Effect of omitting dry period in Saanen and Alpine goats on metabolic profile and performance in the subsequent lactation</i> O540
09:45	<u>Ripamonti Alice</u> , 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> O074
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, <u>Vecchio Domenico</u> <i>Linking Animal Welfare and Biosecurity, a case study in buffalo farms</i> O247
10:15	<u>Chiattelli Diletta</u> , Birolo Marco, Cartoni Mancinelli Alice, Menchetti Laura, Castellini Cesare <i>Assessing the motivation of Leghorn hens to access outdoor space and pasture resources</i> O501
11:00	Coffee break

Thursday June 15th – Room Peucetia

Session 21 – Sustainability and innovation in aquaculture

Chairs:	Centoducati Gerardo – Parisi Giuliana
08:15	<u>Rimoldi Simona</u> , 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> O010
08:30	<u>Prete Andrea</u> , Sist Paola, Tramer Federica, Centoducati Gerardo, Maggolino Aristide, Deflorio Michele, Passamonti Sabina <i>Stress assessment in juvenile seabass (<i>Dicentrarchus labrax</i>) during transport density simulation ...</i> O590
08:45	Roncarati Alessandra, <u>Galosi Livio</u> , 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> O208

09:00	Foglio Luciano, Proietti Lorenzo, Galli Andrea, Aidos Lucia, Di Giancamillo Alessia, Mirra Giorgio, Paolacci Simona, Maguire Julie, Markou Giorgos, Alarcón Francisco Javier, <u>Parati Katia</u> <i>A promising mix of protein sources coming from biorefinery as partial replacement of dietary ingredients in aquafeed for Gilthead Sea Bream (<i>Spaurus aurata</i>) broodstock</i> O593
09:15	<u>Bordignon Francesco</u> , Fanizza Cecilia, Nicoletto Carlo, Maucieri Carmelo, Trocino Angela, Biolo Marco, Xiccato Gerolamo <i>Growth and quality of fish reared in haloponics</i> O404
09:30	<u>Fanizza Cecilia</u> , Bordignon Francesco, Jover-Cerdá Miguel, Martínez-Llorens Silvia, Sánchez-Peñaranda David, Trocino Angela, Tomás-Vidal Ana <i>Digestibility of raw materials candidate for sustainable feed formulation in Mediterranean yellowtail (<i>Seriola dumerili</i>)</i> O405
09:45	Lira de Medeiros Adja Cristina, Faccenda Filippo, Pulido Rodriguez Lina Fernanda, Bruni Leonardo, <u>Secci Giulia</u> , Parisi Giuliana <i>Quality of fillet from trout (<i>Oncorhynchus mykiss</i>) fed diets supplemented with olive pomace at two different levels</i> O414
10:00	Centoducati Gerardo, <u>Deflorio Michele</u> , 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> O493
10:15	Daniso Enrico, Uboni Costanza, Cardinaletti Gloriana, Garlatti Nicolas, Tibaldi Emilio, Luzzana Umberto, <u>Tulli Francesca</u> <i>Finishing diets to modulate flesh fatty acid composition and skin colour in gilthead seabream (<i>Sparus aurata</i>)</i> O514
10:30	<u>Di Rosa Ambra Rita</u> , 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> O071
10:45	<u>Rusco Giusy</u> , 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> O048
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	<u>Sepe Lucia</u> , Lovallo Carmela, De Martino Laura, De Feo Vincenzo <i>Cosmetics based on goat milk whey enriched by essential oils from Mediterranean bushes</i> O509
08:30	<u>Salari Federica</u> , Altomonte Iolanda, Sodi Irene, Martini Mina <i>Fatty acids and sterols composition of three commercial cow's milks</i> O021
08:45	Cappelli Giovanna, <u>Di Vuolo Gabriele</u> , Vecchio Domenico, Grassi Carlo, Bufano Francesca, Noschese Rosario, Capacchione Roberta, De Carlo Esterina <i>Buffalo milk in Italy and the traceability system</i> O212
09:00	<u>Amalfitano Nicolò</u> , 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> O260
09:15	<u>Franceschi Piero</u> , 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> O310



09:30	<u>Malacarne Massimo</u> , 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>	O315
09:45	<u>Tognocchi Monica</u> , 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>	O057
10:00	<u>Ponte Marialetizia</u> , 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 (Sulla coronaria (L.) Medik.) to improve nutritional, microbial and sensory traits of sheep cheese</i>	O551
10:15	<u>Nudda Anna</u> , Guiso Maria Francesca, Sanna Gavino, Deroma Mario, Tsiplakou Eleni <i>Essential and Toxic Mineral Content of Colostrum and Milk in Dairy Sheep</i>	O548
10:30	<u>Di Paolo Marika</u> , Casalino Lorian, 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 Bagnolese cheese</i>	O552
10:45	<u>Niero Giovanni</u> , Penasa Mauro, De Marchi Massimo <i>Quantification and variation of lactoferrin in cow milk assessed through radial immunodiffusion technique</i>	O033
11:00	<u>Varricchio Marialuisa</u> , 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>	O159
11:15	<i>Coffee break</i>	

Thursday June 15th – Room Apulia
Session 23 – New paradigms in animal breeding

Chairs:	Ciampolini Roberta - Landi Vincenzo	
08:15	INVITED LECTURE <u>Lourenco Daniela</u> <i>Are there benefits in using sequence data for genomic predictions?</i>	
08:45	<u>Cimmino Roberta</u> , Gómez Carpio Mayra, Rossi Dario, Gombia Yuri, Zullo Gianluigi, Biffani Stefano <i>Genetic aspects of longevity in Italian Mediterranean Buffalo</i>	O252
09:00	<u>Carta Antonello</u> , 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>	O217
09:15	<u>Punturiero Chiara</u> , Bernini Francesca, Milanese Raffaella, Strillacci Maria Giuseppina, Bagnato Alessandro <i>The Use of Genomics in Dairy Cow Farming – results from the GENORIP project</i>	O411
09:30	<u>Negro Alessio</u> , 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>	O334
09:45	<u>Altieri Damiano</u> , Biffani Stefano, Gómez Carpio Mayra, Carnovale Francesca, Rossi Dario, Gombia Yuri, Di Palo Rossella <i>Preliminary investigation on stayability in Italian Mediterranean Buffalo</i>	O571
10:00	<u>Callegaro Simone</u> , Tiezzi Francesco, Fabbri Maria Chiara, Bozzi Riccardo <i>Different methods to handle preferential treatment in slaughter age in Italian Limousine</i>	O180
10:15	<u>Macciotta Nicolò Pietro Paolo</u> , Degano Lorenzo, Vicario Daniele, Cesarani Alberto <i>A transgenerational study on the effect of birth month of female ancestor on lactation curves of Italian Simmental cattle</i>	O584
10:30	<u>Persichilli Christian</u> , Karaman Emre, Finocchiaro Raffaella, Pilla Fabio, Fabris Anna, Visentin Giulio, Cassandro Martino <i>Study of fertility traits in Italian Jersey Cattle</i>	O563

- 10:45 Sartori Cristina, Tuliozi Beniamino, Mancin Enrico, Gomez-Proto Guido, Mantovani Roberto
How mum and pen mates affect my growth: maternal effects and indirect genetic components on growth traits in young bulls at performance testing station **O399**
- 11:00 *Coffee break*

Thursday June 15th – Room Daunia
Session 24 – Advances in rabbit and poultry products

- Chairs: Bovera Fulvia – Soglia Dominga
- 11:30 **INVITED LECTURE**
Stadnicka Katarzyna
Technologies applied in embryonated eggs
- 12:00 Peng Meng, Açar Samil, Biesek Jakub, Banaszak Mirosław, Tavaniello Siria, Maiorano Giuseppe
Influence of rearing system and hen age on fatty acid composition of egg yolk..... **O574**
- 12:15 Trabalza-Marinucci Massimo, Ranucci David, Galarini Roberta, Branciaro Raffaella, Acuti Gabriele
Egg production and egg quality in free-range laying hens as affected by dietary polyphenols from olive mill wastewaters **O397**
- 12:30 Biasato Ilaria, Bellezza Oddo Sara, Cerutti Gian Luca, Renna Manuela, Xiccato Gerolamo, Trocino Angela, Perano Danilo, Caimi Christian, Brugiapaglia Alberto, Gasco Laura
Mulberry leaf meal as alternative feed ingredient in rabbit nutrition: preliminary results about productive performance and meat quality **O121**
- 12:45 D'Amico Francesco, Casalino Gaia, Schiavitto Michele, Dimuccio Michele Maria, Camarda Antonio, Romito Diana, Circella Elena
In vitro efficacy of Phyto-L against Entero-Pathogenic Escherichia coli strains of rabbits from industrial farms..... **O581**
- 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
ICAR Harmonisation of Sustainability related Milk Traits
- 12:00 Milanesi Marco, Pietrucci Daniele, Vignali Giovanni, Chandramouli Balasubramanian, Mancini Marco, Renzi Francesco, Valentini Riccardo, Santini Monia, Negrini Riccardo, Chillemi Giovanni
Contrasting climate change effects on dairy cattle through Machine Learning approach..... **O300**
- 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 **O113**
- 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..... **O143**
- 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 **O072**
- 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 **O510**



13:15	Morelli Daniela, <u>Di Domenico Marco</u> , Marcacci Maurilia, Cammà Cesare, Averaimo Daniela, Vincifori Giacomo, Iannetti Simona, Ricchiuti Luciano, Radomsky Nicolas, Costarelli Silva, Pezzotti Giovanni <i>Illumina Ampliseq approach for multi-pathogen detection</i>	O588
13:30	<u>Pascarella Lorenzo</u> , De Renzis Maurizio, Melilli Caterina, Fioretti Mauro, Luisi Federica, Negrini Riccardo <i>LEO livestock national bio-repository: a tool for the conservation of Italian livestock genetic diversity</i>	O589
13:45	Lunch	

Thursday June 15th – Room Messapia

Session 26 – Advances in milk and dairy products quality

Chairs:	Maggiolino Aristide – Summer Andrea	
11:30	<u>Lopez Annalaura</u> , Moretti Vittorio Maria, Ratti Sabrina, Rossi Raffaella, Bellagamba Federica <i>A comparison of the nutritional quality and sensory properties of commercial milk with different labeled production systems</i>	O191
11:45	<u>Cipolat-Gotet Claudio</u> , Summer Andrea, Ceresa Paolo, Molle Arnaud Paul J., Mariani Elena, Stocco Giorgia <i>Fourier transform infrared spectroscopy of milk as a tool for monitoring efficiency in the Parmigiano Reggiano PDO production</i>	O273
12:00	Stocco Giorgia, Mariani Elena, Ablondi Michela, Biffani Stefano, Grande Silverio, Summer Andrea, Biagini Domenico, Cipolat-Gotet Claudio <i>The role of Comisana and Massese breeds on cheese-making efficiency and daily cheese production</i>	O299
12:15	Rocchetti Gabriele, <u>Ghilardelli Francesca</u> , Carboni Eliana, Atzori Alberto Stanislao, Masoero Francesco, Gallo Antonio <i>Milk metabolome reveals pyrimidine and its degradation products as the discriminant markers of different corn silage-based nutritional strategies</i>	O009
12:30	<u>Natrella Giuseppe</u> , Maggiolino Aristide, De Palo Pasquale, Pedota Giuseppina, Faccia Michele <i>Survey on milk quality at late lactation and presence of ancient Zebu whey protein marker in Podolic cattle of Basilicata region</i>	O483
12:45	<u>Natrella Giuseppe</u> , Gambacorta Giuseppe, Faccia Michele <i>Effect of aSI casein level on stretchability of goat curd</i>	O485
13:00	<u>Giannuzzi Diana</u> , Vanzin Alice, Toscano Alessandro, Bisutti Vittoria, Pegolo Sara, Cecchinato Alessio <i>Associations between the detailed milk mineral profile and total and differential cell count in Holstein Friesian dairy cows</i>	O488
13:15	Capitanio Fabian, <u>Cascone Ilaria</u> , Pugliano Mariagiulia, Luongo Flavio, D'Anza Emanuele, Rossetti Alberto, Albarella Sara, Ciotola Francesca, Peretti Vincenzo <i>Livestock biodiversity and endogenous area development: The POD "Provolone del Monaco" model</i>	O447
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 <u>Di Croce Fernando</u> , Fessenden Brenda, Layfield Michael, Weigel Daniel, Pisoni Giuliano, Wijma Robert <i>Precision Ag comes to dairy: Genomics tools to improve profit, environmental footprint, and cow wellbeing</i>	

12:00	<u>Mancin Enrico</u> , Sartori Cristina, Gomez Guido, Mantovani Roberto <i>Environmental variation of milk production: an effective indicator of genetic and genomic animal resilience</i> O409
12:15	<u>Ferrari Valentina</u> , Visentin Giulio, van Kaam Jan-Thijs, Penasa Mauro, Marusi Maurizio, Finocchiaro Raffaella, Cassandro Martino <i>Genetic aspects of heifer fertility in Italian Holstein population</i> O036
12:30	<u>Fabris Anna</u> , Tiezzi Francesco, Finocchiaro Raffaella, Marusi Maurizio, Cassandro Martino <i>Preliminary genetic analysis for survival in Italian Jersey</i> O037
12:45	<u>Buonaiuto Giovanni</u> , Lopez-Villalobos Nicolas, Costa Angela, Formigoni Andrea, Visentin Giulio <i>Effect of morphological characteristics and productive traits on the survival of dual-purpose Simmental cows</i> O041
13:00	<u>Pegolo Sara</u> , Giannuzzi Diana, Bisutti Vittoria, Ramirez Mauricio Marco Aurelio, Macedo Mota Lucio Flavio, Ajmone Marsan Paolo, Trevisi Erminio, Cecchinato Alessio <i>Genetic parameters for blood indicators of metabolic distress and milk traits in dairy cattle</i> O066
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	<u>Zappaterra Martina</u> , Zanna Martina, Nanni Costa Leonardo, Padalino Barbara <i>Application of infrared thermography for detection of udder health disorders in dairy cattle</i> O015
14:45	<u>Bobbo Tania</u> , Matera Roberta, Neglia Gianluca, Gomez Mayra, Cimmino Roberta, Manunza Arianna, Biffani Stefano <i>What do we know about differential somatic cell count in buffaloes?</i> O329
15:00	<u>Turini Luca</u> , Bonelli Francesca, Senatore Elena, Roncoroni Cristina, Sgorbini Micaela, Silvi Alina, Conte Giuseppe, Mele Marcello <i>Relationships between on-farm animal welfare assessment, milk yield and quality in dairy cows</i> O069
15:15	<u>Vanzin Alice</u> , Battisti Ilaria, Franchin Cinzia, Bisutti Vittoria, Toscano Alessandro, Giannuzzi Diana, Masi Antonio, Arrigoni Giorgio, Gallo Luigi, Cecchinato Alessio, Pegolo Sara <i>Mass spectrometry-based characterization of the bovine milk peptidome upon <i>Streptococcus agalactiae</i> and <i>Prototheca</i> spp. infection</i> O123
15:30	<u>Bisutti Vittoria</u> , Mach Nuria, Giannuzzi Diana, Vanzin Alice, Capra Emanuele, Cecchinato Alessio, Pegolo Sara <i>Transcriptomic and phenomic data integration to identify markers of subclinical mastitis in Holstein cattle</i> O125
15:45	<u>Mondini Sara</u> , Tamburini Alberto, Palladini Nicola Maria, Bava Luciana <i>Differential somatic cell count during lactation in dairy cattle herds from northern Italy</i> O482
16:00	<u>Matera Roberta</u> , Conte Giuseppe, Cotticelli Alessio, Pascarella Lorenzo, Tondo Alessia, De Luise Luca, Campanile Giuseppe <i>Milking parameters related to mammary gland health and milk characteristics in Italian Mediterranean buffalo</i> O431
16:15	<u>Mecocci Samanta</u> , Pietrucci Daniele, Milanese Marco, Capomaccio Stefano, Evangelista Chiara, Basiricò Loredana, Bernabucci Umberto, Chillemi Giovanni, Cappelli Katia <i>Transcriptomic characterization of water buffalo's Extracellular Vesicles from colostrum and milk for their Immunomodulatory Potential</i> O130
17:00	Coffee break



Thursday June 15th – Room Peucetia

Session 29 – Sustainable feeding strategies in livestock system

Sponsored by Mignini & Petrini

Chairs:	Pinotti Luciano – Masucci Felicia
14:30	INVITED LECTURE <u>Pulina Giuseppe</u> , Correddu Fabio, Caratzu Maria Francesca, Lunesu Mondina Francesca <i>Livestock sustainability, the four slices of the same pie</i>
15:00	<u>Oteri Marianna</u> , Scordia Danilo, Armone Rosangela, Costale Annalisa, Meineri Giorgia, Gresta Fabio, Chiofalo Biagina <i>A sustainable alternative grain legume for livestock: agronomic and nutritional traits of three lupin (<i>Lupinus spp.</i>) species</i> O030
15:15	<u>Braidot Matteo</u> , Sarnataro Chiara, Fabro Carla, Spanghero Mauro <i>In vitro evaluation of sodium nitrate as a rumen methane reducer</i> O358
15:30	<u>Battelli Marco</u> , Colombini Stefania, Crovetto Gianni Matteo, Galassi Gianluca, Manfredi Maria Teresa, Rapetti Luca <i>Quebracho condensed tannins fed to lactating goats: effect on methane production</i> O325
15:45	Vastolo Alessandro, Formato Marialuisa, Piccolella Simona, Calabrò Serena, Pacifico Severina, <u>Cutrignelli Monica Isabella</u> <i>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</i> O178
16:00	<u>Scicutella Federica</u> , Mannelli Federica, Daglio Matteo, Azim Khalid, Toni Elisabetta, Viti Carlo, Buccioni Arianna <i>Mediterranean agro-industrial by-products as ingredients in a sustainable feeding strategy for dairy sheep: an in vitro trial to evaluate rumen ecosystem</i> O489
16:15	Piccioli-Cappelli Fiorenzo, Moschini Maurizio, <u>Froldi Federico</u> , Bani Paolo, Müller Isabel, Tamassia Luis, Bulgarelli Paolo, Trevisi Erminio <i>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</i> O491
16:30	<u>Massaro Selene</u> , Andersen Jonas Bylov Hedegaard, Franciosi Elena, Tagliapietra Franco <i>Alpine herbs affect rumen in vitro degradability and methane emissions</i> O079
16:45	<u>Caturano Costantino</u> , Tremonte Patrizio, Lombardi Silvia Jane, Fatica Antonella, Sorrentino Elena, Coppola Raffaele, Salimei Elisabetta <i>Use of lactic acid bacteria in forage production of Alto Sannio area</i> O245
17:00	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 <u>Rosa Guilherme</u> , Hernandez Laura, Dorea Joao R. R. <i>Digital technologies and Machine learning: A new way to look at novel traits at spatial and temporal dimensions</i>
15:00	<u>Casu Sara</u> , Usai M. Graziano, Salaris Sotero, Caredda Marco, Addis Margherita, Carta Antonello <i>Phenotypic Analysis of Ovine Milk Infrared Spectra</i> O193
15:15	<u>Cartoni Mancinelli Alice</u> , Chiattelli Diletta, Menchetti Laura, Bernacchia Gianmaria, Castellini Cesare <i>Preliminary validation of Ultra-Wide Band device as an innovative tool to assess chicken behaviour</i> O499
15:30	<u>Pietrucci Daniele</u> , Milanese Marco, Chandramouli Balasubramanian, Vignali Giovanni, Negrini Riccardo, Macini Marco, Santini Monia, Chillemi Giovanni <i>Identification of the most impacting environmental variables on dairy cows milk yield using Machine Learning methods</i> O324

15:45	<u>Lazzari Andrea</u> , Brambilla Massimo, Giovinazzo Simone, Calcante Aldo, Giannini Alessandro Antonio, Bisaglia Carlo <i>Automation to support rationing of dairy and beef cattle: comparisons and practical examples of application</i> O133
16:00	<u>Caré Sara</u> , Migliorati Luciano, Abeni Fabio, Pirlo Giacomo <i>Expectation from precision livestock farming (PLF) in reducing environmental impact of dairy farms</i> O424
16:15	INVITED LECTURE <u>O'Brien Bernadette</u> <i>Precision technologies and smart dairy farming in extensive pasture based systems</i>
17:00	<i>Coffee break</i>

Thursday June 15th – Room Apulia

Session 31 – Genomic tools for ruminant resiliency

Chairs:	Bozzi Riccardo – Pasquini Marina
14:30	INVITED LECTURE <u>Lecchi Cristina</u> <i>Bovine extracellular vesicles: a new challenge for animal science</i>
15:00	<u>Gómez Mayra</u> , Cimmino Roberta, Rossi Dario, Zullo Gianluigi, Biffani Stefano <i>Genomic regions associated with Somatic Cell Score in Italian Mediterranean Buffalo</i> O220
15:15	<u>Salaris Sotero</u> , Usai Mario Graziano, Casu Sara, Carta Antonello <i>Genetic Relationships between Milk Production and Impacting Diseases in breeding Sheep</i> O221
15:30	<u>Ramirez Diaz Johanna</u> , Manunza Arianna, Rincon Florez Juan Carlos, Alvarez Luz Angela, Ciappesoni Gabriel, Peraza Pablo, Barreto Mourao Gerson, Arranz Jose, Freire Fernando, Cozzi Paolo, Stella Alessandra <i>Looking for the genes involved in local adaptation in sheep</i> O342
15:45	<u>Capomaccio Stefano</u> , Milanese Marco, Vajana Elia, Bomba Lorenzo, Chillemi Giovanni, Ajmone-Marsan Paolo, Colli Licia <i>BITE v.2: a user friendly R package for genomic analysis</i> O372
16:00	Raspa Federica, <u>Stoppani Nadia</u> , Soglia Dominga, Perini Francesco, Fiorilla Edoardo, Profitti 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> O204
16:15	Ben Jemaa Slim, Tolone Marco, Sardina Maria Teresa, Chessari Giorgio, Di Gerlando Rosalia, Portolano Baldassare, <u>Mastrangelo Salvatore</u> <i>A genome-wide comparison between unselected and selected Valle del Belice sheep reveals selection signatures related to production traits</i> O415
16:30	<u>Rossoni Attilio</u> , Nicoletti Chiara, Vevey Mario, Santus Enrico <i>Integration between genomic and microsatellite analysis for the parentage verification</i> O442
17:00	<i>Coffee break</i>

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, Ghio Franco, <u>Trocino Angela</u> <i>Space use by laying hens in a cage-free system: effect of genotype and enrichment with perches</i> O453
08:45	<u>Poulopoulou Ioanna</u> , Zanon Thomas, AlRhmoun Mousaab, Katzenberger Katja, Holighaus Louis, Gault Matthias <i>Assessment of dairy farm welfare using a benchmarking tool</i> O464



09:00	<u>Crosetto Riccardo</u> , Sartore Stefano, Ponzio Patrizia, Macchi Elisabetta, Mioletti Silvia, Miniscalco Barbara, Sicuro Benedetto, Tarantola Martina, Mugnai Cecilia <i>Grey Piedmont's rabbit welfare evaluation in three housing systems</i> O526
09:15	<u>Benitez Mora Maria Paz</u> , Longobardi Valentina, Piscopo Federica, Esposito Riccardo, Bifulco Giovanna, Salzano Angela <i>Effect of pomegranate extract on post-thawed sperm quality</i> O433
09:30	<u>Torsiello Benedetta</u> , Giammarino Mauro, Battaglini Luca, Battini Monica, Mattiello Silvana, Quatto Piero, Renna Manuela <i>Evaluation of inter-observer reliability of animal-based welfare indicators in the case of trichotomous variables with two or more observers</i> O008
09:45	<u>Lanzoni Lydia</u> , Waxenberg Kaia, Ramsey Rachael, Rees Robert Martin, Bell Julian, Vignola Giorgio, Atzori Alberto Stanislao <i>The environmental cost of impaired welfare in dairy sheep farming</i> O043
10:00	<u>Zanon Thomas</u> , Gaulty Matthias <i>Walking distance and maintenance energy requirements of sheep during mountain pasturing (transhumance)</i> O054
10:15	Colombini Stefania, <u>Menni Giorgio</u> , Pavese Martina, Battelli Marco, Xiaoxia Dai, Galassi Gianluca, Crovetto Gianni Matteo, Rapetti Luca <i>Effect of a blend of essential oil on in vitro rumen fermentation for SARA prevention</i> O295
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 <u>Laloë Denis</u> , Jaffrézic Florence, Zerjal Tatiana, Rau Andrea <i>Old wine in new bottles: Factorial analyses in the age of multi-omics</i>
09:00	<u>Strillacci Maria Giuseppina</u> , Bernini Francesca, Punturiero Chiara, Vevey Mario, Blanchet Veruska, Bagnato Alessandro <i>Structural Variation in the Aosta cattle breed</i> O410
09:15	<u>Bernini Francesca</u> , Punturiero Chiara, Bagnato Alessandro, Milanese Raffaella, Vevey Mario, Blanchet Veruska, Strillacci Maria Giuseppina <i>A Genome Wide Association Study in the Aosta Cattle population</i> O413
09:30	<u>Pauciullo Alfredo</u> , Versace Carmine, Gaspa Giustino, Cosenza Gianfranco <i>A functional polymorphism influencing the promoter activity of alpaca α-lactalbumin gene (LALBA)</i> O188
09:45	<u>Cortellari Matteo</u> , Negro Alessio, Bionda Arianna, Fresi Pancrazio, Grande Silverio, Crepaldi Paola <i>Effect of artificial insemination on genomic population structure in Camosciata delle Alpi dairy goat breed</i> O240
10:00	<u>Dadousis Christos</u> , Ablondi Michela, Cipolat-Gotet Claudio, van Kaam Jan-Thijs, Finocchiaro Raffaella, Marusi Maurizio, Cassandro Martino, Sabbioni Alberto, Summer Andrea <i>The effect of ancestral and SNP panel genotyping on genomic inbreeding coefficients from imputed SNP in Holstein-Friesian dairy cows</i> O283
10:15	<u>Manunza Arianna</u> , Ramirez Diaz Johanna, Zamora Bustillo Roberto, Ciappesoni Gabriel, Peraza Pablo, Lenstra Johannes A., Estrada Reyes Zaira, Arranz Santos Juan José, Revelo Cuaspuud Herman Alberto, Rincon Flórez Juan Carlos, Stella Alessandra <i>About the origin of traditional sheep breeds from South America: a comprehensive investigation</i> O346
10:30	<u>Biscarini Filippo</u> , Cozzi Paolo, Ramirez-Díaz Johanna, Stella Alessandra, Manunza Arianna <i>Detection of heterozygosity-rich regions (HRRs) in the genome of domestic ruminants: which parameters for which breed</i> O031
10:45	<u>Ribani Anisa</u> , Taurisano Valeria, Rakaj Arnold, Fianchini Alessandra, Grosso Luca, Pensa Davide, Buttazzoni Luca, Capoccioni Fabrizio, Pulcini Domitilla, Utzeri Valerio Joe, Fontanesi Luca <i>Mitochondrial DNA based diversity over several Mediterranean regions in holothurian species</i> O251
11:00	Coffee break

Friday June 16th – Room Messapia

Session 34 – Companion animals

Chairs:	Cutrignelli Monica – Stefanon Bruno
08:30	INVITED LECTURE <u>Switonsky Marek</u> , Szczerbal Izabela, Nowacka-Wozuk Joanna, Stachowiak Monika <i>Cytogenetic and molecular background of canine and feline disorders of sex development</i>
09:00	<u>Delsante Costanza</u> , Vecchiato Carla Giuditta, Sportelli Federica, Cabri Giulia, Pinna Carlo, Cavazzoni Marco, Biagi Giacomo <i>Blood and clinical parameters of obese and lean cats, and the effects of a caloric restriction</i> O011
09:15	<u>Pinna Carlo</u> , Vecchiato Carla Giuditta, Delsante Costanza, Sportelli Federica, Parazza Paola, Dall'Olio Massimo, Biagi Giacomo <i>Effects of oral supplementation with coconut oil on fecal microbiota of healthy dogs</i> O012
09:30	<u>Moretti Riccardo</u> , Chessa Stefania, Profiti Margherita, Uva Anna Maria, Tarducci Alberto, Zatelli Andrea, Sacchi Paola <i>Resistance versus susceptibility to Leishmania: genetic differences in a population of English Setter dogs</i> O150
09:45	Balouei Fatemeh, Sandri Misa, Scarsella Elisa, Sgorlon Sandy, <u>Stefanon Bruno</u> <i>Reconstruction of functional features of fecal microbiome in dogs fed different diets</i> O197
10:00	<u>Crepaldi Paola</u> , Bionda Arianna, Cortellari Matteo, Lopreiato Vincenzo, Liotta Luigi <i>Selection signatures in Italian hunting dogs</i> O286
10:15	<u>D'Anza Emanuele</u> , Bionda Arianna, Liotta Luigi, Ronchese Mauro, Cortellari Matteo, Albarella Sara, Ciotola Francesca, Crepaldi Paola <i>English and American Golden retrievers differentiation: from sperm morphometry to genomic data</i> . O301
10:30	<u>Atuahene David</u> , Costale Annalisa, Martello Elisa, Chiofalo Biagina, Sandri Misa, Stefanon Bruno, Meineri Giorgia <i>Nutraceuticals: a promising alternative to the use of drugs for intestinal wellness in dogs</i> O052
10:45	<u>Vastolo Alessandro</u> , Ruggiero Alessio, Calabrò Serena, Kiatti Dieu Donné, Cutrignelli Monica Isabella <i>Influence of grain-free and cereal-based diets on postprandial glycaemic response</i> O490
11:00	Coffee break

Friday June 16th – Room Apulia

Session 35 – Sustainable feeding strategies in livestock system

Chairs:	Di Francia Antonio – Bailoni Lucia
08:00	INVITED LECTURE <u>Atzori Alberto Stanislao</u> , Atamer Balkan Busra, Tedeschi Luis Orindo, Cannas Antonello, Gallo Antonio <i>Dynamic modelling in ruminant nutrition: background, applications and perspectives for the sustainability of livestock productions</i>
08:30	<u>Serrapica Francesco</u> , Di Francia Antonio, Barone Carmela Maria Assunta, Genovese Alessandro, Balivo Andrea, Masucci Felicia <i>Can sprouted barley grains replace maize silage in dairy buffaloes' diets? Effects on production efficiency, milk traits, and mozzarella cheese quality</i> O149
08:45	<u>Gannuscio Riccardo</u> , Vastolo Alessandro, Maniaci Giuseppe, Lucia Caterina, Todaro Massimo, Cutrignelli Monica Isabella <i>Novel feedstuffs obtained mixing different by-products: nutritional evaluation</i> O554
09:00	<u>Bolletta Viviana</u> , Ruggiero Menci, Pauselli Mariano, Servili Maurizio, Taticchi Agnese, Morbidini Luciano, Valenti Bernardo <i>Dietary hazelnut skin and addition of phenolic extract from olive mill wastewaters: Effects on pork salami quality</i> O512
09:15	<u>Tinagli Sara</u> , Silvi Alina, Casarosa Laura, Turini Luca, Tognocchi Monica, Serra Andrea <i>Effect of a Sulla-based diet on Massese sheeps' milk and cheese</i> O292



09:30	<u>Maniaci Giuseppe</u> , Ponte Marialetizia, Gannuscio Riccardo, Giosué Cristina, Di Grigoli Antonino, Bonanno Adriana, Alabiso Marco, Pipi Marianna <i>Effect of the inclusion of Opuntia ficus-indica cladodes in the feeding of Cinisara cows on Caciocavallo Palermitano cheese produced in summer</i> O406
09:45	Iommelli Piera, Sarubbi Fiorella, <u>Musco Nadia</u> , Lombardi Pietro, Morittu Valeria Maria, Moniello Giuseppe, Totakul Pajaree, Infascelli Federico, Tudisco Raffaella <i>Effect of fennel seeds as a dietary supplement in grazing goats: preliminary results</i> O462
10:00	Piccioli-Cappelli Fiorenzo, de la Maza-Escolà Victor Sainz, Grilli Ester, Berelli Marco, Benedetti Lorenzo, Lovotti Giorgia, <u>Trevisi Erminio</u> <i>Effects on feed efficiency and resilience in the transition period of Holstein dairy cows fed with different sources of rumen-protected choline</i> O463
10:15	<u>Reggi Serena</u> , Guagliano Marianna, Pedrazzi Simone, Allesina Giulio, Spalletta Ambra, Scoranelli Simona, Cristiani Cinzia, Rossi Luciana <i>In vitro evaluation of biochar from chestnut and vine residues gassification as possible feed additive: antioxidant and antimicrobial activities</i> O279
10:30	<u>Trevisi Paolo</u> , Correa Federico, Viridis Sara, Negrini Clara, Dalcanale Simone <i>Efficacy of low protein diets with different amylose/amylopectin ratio on growth performance and health of weaned pigs</i> O356
10:45	<u>Danieli Pier Paolo</u> , Manganello Federico, Fiore Leonardo, Natoli Vincenzo, Ronchi Bruno, Primi Riccardo <i>Nutritional profile of hay from tef (Eragrostis tef) genotypes grown in South Italy</i> O128
11:00	Coffee break

Friday June 16th – Room Daunia

Session 36 – Research and sustainability in horse production

Chairs:	Salimei Elisabetta – Capomaccio Stefano
11:30	INVITED LECTURE <u>Vial Céline</u> <i>Equine production and activities in France: what contributions to the sustainability of local areas?</i>
12:00	<u>Asti Vittoria</u> , Sabbioni Alberto, Stocco Giorgia, Summer Andrea, Ablondi Michela <i>The background of novel phenotypes in a native horse breed</i> O314
12:15	Bordina Clara, Raspa Federica, Roggero Angela, Palestrini Claudia, Harris Patricia, Ellis Andrea Dorothea, Bergero Domenico, <u>Defilippi Silvia</u> , Valle Emanuela <i>A new-designed feeding device for sustainable hay feeding management in ponies</i> O302
12:30	Zappaterra Martina, Felici Martina, Nanni Costa Leonardo, <u>Padalino Barbara</u> <i>Welfare on arrival at the slaughterhouse: handled versus unhandled horses</i> O014
12:45	<u>Zoratti Aloma</u> , Pividori Isabella, Comin Antonella, Piasentier Edi, Prandi Alberto, Peric Tanja <i>Assessment of the allostatic load in horses at the slaughterhouse</i> O294

Friday June 16th – Room Peucetia

Session 37 – Insects' production for feed and food

Chairs:	Chiofalo Biagina - Gasco Laura	
11:30	<u>Ferri Irene</u> , Dell'Anno Matteo, Reggi Serena, Canala Benedetta, Petrali Beatrice, Rossi Luciana <i>Innovative growing substrates for the production of functional Tenebrio molitor meals</i>	O547
11:45	<u>Renna Manuela</u> , Coppa Mauro, Lussiana Carola, Le Morvan Aline, Rastello Lara, Gasco Laura, Maxin Gaelle <i>Rumen lipid biohydrogenation of insect meals: results of an in vitro study</i>	O039
12:00	<u>Mancini Simone</u> , Mattioli Simona, Fratini Filippo, Cacchiarelli Chiara, Tuccinardi Tiziano, Dal Bosco Alessandro, Paci Gisella <i>Comparison between lesser mealworm, mealworm and superworm larvae reared on the same substrate for their use as feed/food</i>	O100
12:15	<u>Bellezza Oddon Sara</u> , Biasato Ilaria, Resconi Andrea, Loiotine Zaira, Caimi Christian, Zaniboni Luisa, Gasco Laura <i>Effect of different iso-waste-based diets on black soldier fly larvae growth and chemical composition</i>	O520
12:30	Sogari Giovanni, Tzompa-Sosa Daylan Amelia, Moruzzo Roberta, Riccioli Francesco, Menozi Davide, Liu Aijun, Li Jie, <u>Mancini Simone</u> <i>Consumers' acceptance toward edible insects: A cross-country study in Belgium, China, Italy, Mexico, and the US</i>	O163
12:45	<u>Addeo Nicola Francesco</u> , Vozzo Simone, Alleva Rosanna, Tancredi Federica, Piccolo Giovanni, Bovera Fulvia <i>Growth performance and morphometric characteristics of Hermetia illucens larvae reared on four different substrates</i>	O213
13:00	<u>Pascon Giulia</u> , Cardinaletti Gloriana, Messina Maria, Daniso Enrico, Tibaldi Emilio, Randazzo Basilio, Tulli Francesca <i>Effect of dietary chitin on growth performance, nutrient utilization and metabolic response in rainbow trout (Oncorhynchus mykiss)</i>	O516

Friday June 16th – Room Messapia

Session 38 – Advances in dietary feed supplementation

Chairs:	De Palo Pasquale – Nudda Anna	
11:30	<u>Mammi Ludovica Maria Eugenia</u> , Ghiaccio Francesca, Bonfante Elena, Vezzani Claudio, Colleluori Riccardo, Cortese Martina, Formigoni Andrea <i>Precision feeding: amino acid balance in dairy cows fed two different levels of total crude protein...</i>	O278
11:45	<u>Lopreiato Vincenzo</u> , Chiofalo Vincenzo, Cavallo Carmelo, Amato Annalisa, Trevisi Erminio, Liotta Luigi <i>Effect of feeding enriched-olive cake on metabolic and milk performance response of mid-lactating Holstein cows</i>	O281
12:00	<u>Lora Isabella</u> , Tolasi Cecilia, Ranzato Giovanna, Zanoli Yadav, Cozzi Giulio <i>Field study on the effects of pasteurization on colostrum quality of Holstein dairy cows</i>	O308
12:15	<u>Mastroeni Carmelo</u> , Ghilardelli Francesca, Sigolo Samantha, Mosconi Martina, Gallo Antonio <i>Oxygen barrier plastic films: an opportunity to improve silage quality and reduce the use of plastic</i> .	O386
12:30	<u>Arango Sheyla</u> , Massaro Selene, Guzzo Nadia, Tagliapietra Franco, Bailoni Lucia <i>Effect of hemp leaves on milk yield and quality in dairy cows: preliminary results</i>	O402
12:45	<u>Meli Giovanna</u> , Fumo Valentina, Scicutella Federica, Invernizzi Guido <i>Impact of maternal milk from goats fed with Camelina sativa and Cynara cardunculus cake on goat kids' growth performance and health status</i>	O420
13:00	<u>Marchetti Luca</u> , Rebucci Raffaella, Giromini Carlotta, Lanzoni Davide, Cremonesi Paola, Castiglioni Bianca, Biscarini Filippo, Perricone Vera, Sandrini Silvia, Bontempo Valentino <i>Evaluation of essential oils from natural extracts and medium chain fatty acids on piglets growth performance, salivary stress markers and gut health</i>	O087
13:15	<u>Righi Federico</u> , Pitino Rosario, Pozza Marta, Goi Arianna, De Marchi Massimo, Simoni Marica <i>Relationship between diets characteristics and milk composition in lactating dairy cowfed silage- or hay-based diets</i>	O440



Friday June 16th – Room Apulia

Session 39 – Genomic tools for animal resiliency and susceptibility

- Chairs: Bagnato Alessandro - Sartori Cristina
- 11:30 **INVITED LECTURE**
Vergani Andrea Mario, Bagnato Alessandro, Masseroli Marco
The use of Machine Learning in the Genomic Era of Livestock Farming
- 12:00 Fabbri Maria Chiara, Tiezzi Francesco, Lozada-Soto Emmanuel, Crovetto Alessandro, Consortium TREASURE, Bozzi Riccardo
Loss of autozygosity in QTL regions in crossbred pigs O168
- 12:15 Ballan Mohamad, Bovo Samuele, Schiavo Giuseppina, Bolner Matteo, Bertolini Francesca, Cappelloni Manolo, Tinarelli Silvia, Gallo Maurizio, Fontanesi Luca
Mining high density SNP chip data and whole genome sequencing information to identify putative unfavorable alleles in pig breeds O223
- 12:30 Bovo Samuele, Schiavo Giuseppina, Fanelli Flaminia, Ribani Anisa, Bertolini Francesca, Gallo Maurizio, Galimberti Giuliano, Dall'Olio Stefania, Martelli Pier Luigi, Casadio Rita, Pagatto Uberto, Fontanesi Luca
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GENERAL INFORMATION

Congress dates

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

Venues

Opening ceremony and Welcome Cocktail on the 13th June

Location: Torre Cintola Resort

Oral sessions from the 13th to the 16th of June 2023

Location: Torre Cintola Resort

Parking

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

Secretariat and Registration Desk times during the Congress

Tuesday 13 th June	14.00 – 19.00
Wednesday 14 th June	08.00 – 19.00
Thursday 15 th June	08.00 – 19.00
Friday 15 th 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, to be downloaded from our informatic system after the congress

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 presentation 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 the "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"
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 "ASPAS Young Researchers Competition – Oral Presentations"

To promote and stimulate young researchers, the Animal Science and Production Association (ASPAS), in collaboration with the Italian Journal of Animal Science (IJAS) and with the economic support of the Organizing Committee of the 25th ASPAS Congress (2023), organizes the third edition of the "ASPAS Young Researchers Competition - Oral Presentations" with the aim to select the best 5 papers as oral communications at the 25th ASPAS 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.

APP



Photo Exhibition

Photos of marginal areas, rural environments, native breeds of Southern Italy (Apulia and Molise) will be displayed in the conference rooms. Ph: Luigi Geraci, Rocco Giorgio, Fabio Pilla.

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 21.00

Tuesday 13th June at 12.00 and 18.00

Wednesday 14th June at 12.00

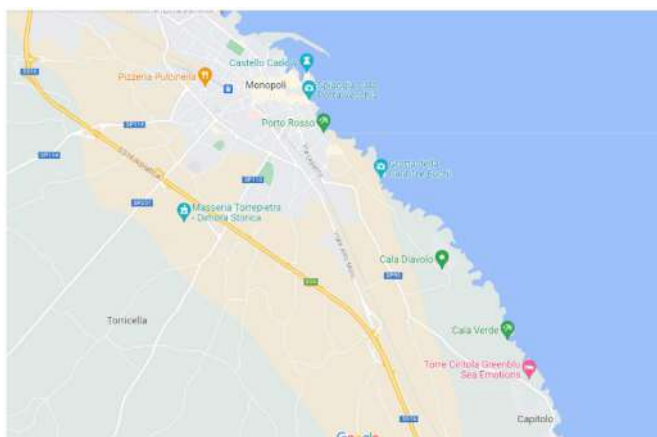
From Monopoli to Airport:

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.

antioxidant activity and glutathione peroxidase were not affected by dietary supplementation of NCU and PBC ($p > 0.05$) but inclusion of NCU in the ration improved ($p < 0.05$) superoxide dismutase concentration on d 30 and 60 of the experiment.

KEYWORDS: Antioxidant; celmanax prebiotic; copper nano oxide; suckling calves

P456

Influence of supplementing bakery by-products and cocoa bean shells to a grass-based diet on feed intake, milk production and ruminal fermentation of early-lactating dairy cows

A.M. Reiche^a, Marco Tretola^b, J. Eichinger^a, A. Münger^a, L. Eggerschwiler^a, A.L. Hütten^a, F. Fumagalli^b, L. Pinotti^b and F. Dohme-Meier^a

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Food leftovers from bakery industries (BBP) and cocoa bean shells (CBS) represent losses of food that are normally wasted despite their high energy and polyphenol content. Their use in ruminant nutrition could enhance the re-use of organic losses and convert them into valuable feed ingredients. This study aimed at evaluating if BBP and BBP containing CBS can replace most of a cereal-based concentrate in a herbage-based diet fed to dairy cows in early lactation without negative consequences on the cows' ruminal fermentation and production.

We used 17 early lactating Holstein and Red Holstein cows for 6 weeks, including a baseline measurement (day before start), a 2-wk adaptation (P1) and a 4-wk sampling period (P2). The cows were fed ad libitum freshly harvested herbage and were assigned to one of three concentrate types: (i) a control concentrate (CON), (ii) a concentrate including 55% BBP (BP-) and (iii) a concentrate including 55% BBP and 1% CBS (BP+). The concentrates were similar in protein and net energy contents and were offered according to a fixed allocation scheme from 5 kg in P1 to 6 kg in P2. Feed intake and milk yield were recorded daily, and milk composition twice weekly. Reticular pH was measured continuously (SmaXtec, Graz, Austria). Linear mixed models included the random effect cow and the fixed effects period, concentrate type, their interaction and – for feed intake – baseline herbage intake (R, package lme4).

In P2, CON and BP- cows ingested more concentrate than BP+ cows ($p < 0.05$). Across periods, CON cows ingested less water-soluble carbohydrates and more starch ($p < 0.05$) than

BP- and BP+ cows, which was more pronounced in P2 than P1 ($p < 0.05$). Milk yield decreased from P1 to P2, which was less pronounced feeding CON and BP- than BP+ ($p < 0.05$). In P2, milk lactose percentages were greater in CON than in BP- and BP+ cows. Across all periods, the range of the reticular pH of CON cows was smaller compared to BP- and BP+ cows ($p < 0.05$). The mean, min and max pH increased from P1 to P2, which was less pronounced feeding CON and BP+ than BP- ($p < 0.05$).

Feeding BBP increased water-soluble carbohydrate and decreased starch intake. The relationship between the BBP-related increases of reticular pH and pH range and rumen health needs to be further investigated. The lower concentrate intake and milk yield of cows receiving CBS need further investigation regarding possible anti-nutritional effects of CBS-derived tannins.

P492

Microplastics contamination in dairy cows' total mixed ration

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The demand for milk and meat is continuously increasing with the growth of world population, that is expected to reach about 9.7 billion by 2050. Ruminants are one of the main sources of these animal products, thus boosting their intensive livestock. However, ruminants are exposed to a huge number of contaminants, with potential risks for humans. Among contaminants, plastic materials are probably the most common. Low-density polyethylene (LDPE) and polyamide copolymer (PA-LDPE) films are widely used to cover horizontal silos and to wrap and tie bales; veterinary medicine containers are made of high-density polyethylene (HDPE). In addition, plastics from atmospheric deposition should be accounted in feed contamination studies. Plastics undergo to a systematic fragmentation driven mainly by ultraviolet radiation (UV) and mechanical abrasion, thus generating small plastic fragments (<5 mm), called microplastics (MPs). Recent studies have shown that MPs can potentially contaminate animal feeds, as confirmed by their presence in cow blood and sheep feces.

Aim of this work was to verify the presence of MPs in a total mixed ration (TMR) for dairy cows using a protocol specifically optimized to extract 5 polymers: LDPE, HDPE, PA, polyethylene terephthalate (PET) and polystyrene (PS).

The TMR was sampled in 3 different points of the feed lane of a dairy cattle farm located near Torino (N-W Italy). No plastic disposables or materials were used for sampling or analysis. Samples were dried at 60 °C overnight and grounded with a mill (5 mm sieve). The MPs extraction was done with an environmental