

77th Annual Meeting of The European Federation of Animal Science

**HAMBURG, GERMANY
SEPTEMBER 7 - 11, 2026**



PROGRAMME EAAP 2026



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Welcome to the 77th EAAP Annual Meeting in Hamburg

Ladies and Gentlemen,

on behalf of the Federal Ministry of Agriculture, Food and Regional Identity (BMLEH), the German Society for Animal Production (DGfZ) and the German Organizing Committee we are very pleased to invite you to the **77th meeting of the European Federation of Animal Science (EAAP)**, which will take place from **7 to 11 September 2026** in the lively and historic city of **Hamburg**. Under the general theme **“Shaping resilient livestock systems is key to circular agriculture”**, we will discuss innovative approaches and solutions for sustainable and resilient livestock systems. Knowledge-based innovations in the livestock sector are essential for developing resilient, circular agricultural systems that can ensure food security, promote animal health, mitigate the negative effects of climate change and contribute to the achievement of the Sustainable Development Goals.

Not only from Europe, but from all over the world, top-class scientists from various disciplines come together at the EAAP Annual Meetings to exchange ideas, present their latest research findings in 12 Study Commissions and establish new contacts from science and industry. No other conference in the world offers such a scientific exchange and excellent platform in this specialized field as the EAAP conferences. We look forward to welcome around 2,000 participants from over 55 nations to Hamburg.

Hamburg – the “Pearl of the North” – offers an inspiring setting for the conference with its unique blend of historical architecture and modern flair. The city, characterized by its location on the river Elbe, is a cultural jewel. The Speicherstadt, Hamburg City Hall, the Miniatur Wunderland and over 2,500 town bridges invite you to discover them.

Germany is one of the most important agricultural countries in Europe, with animal husbandry playing a central role. Germany’s agricultural diversity is matched by its culinary delights. Its beer culture and the enormous range of different styles of bread are internationally known and highly appreciated. Not to forget the popular German wines.

The conference will be complemented by various social events. Look forward to an unforgettable German Evening during Hamburg Harbour Night – set aboard a ship in one of Europe’s largest seaports, featuring hearty regional fare and a truly authentic maritime atmosphere.

Discover the beauty of Northern Germany as well. The Technical Tours offer you plenty of opportunities to do so. Or you may be interested in visiting the Hamburg Wadden Sea National Park, which has been an UNESCO biosphere reserve since 1992 and part of the Wadden Sea World Heritage Site since 2011. Immerse yourself in its stunning landscapes and learn why this area is considered one of the most important tidal ecosystems in the world.

We hope you feel inspired and will be able to attend this important conference and join us in shaping the future of animal husbandry and agriculture.

Dr. Christian Lambertz Chairman of German Organizing Committee
Hans-Willi Warder President of the German Society for Animal Production (DGfZ)
Dr. Jan-Hendrik Schneider Federal Ministry of Agriculture, Food and Regional Identity (BMLEH)



Every calf matters.

Reliable data.

More focused decisions.

Maximum breeding progress.



Programme overview

MONDAY						
ROOM	Room Z	Room X6	Room X7-9	Room X4-5	Room X2-3	Room X10
08:30 - 10:15	1. Breeding for reduced methane, feed efficiency, resiliency and its potential consequences (G)	2. Challenge session on The third state of the world report on AnGR. (G)	3. European resilient livestock farming systems in a continuously changing world. Part 1 (LFS;S+G)	4. Novel infrared (MIR/NIR) approaches on milk, urine, and feces to predict methane emissions and biomarkers (C;G)	5. Circular/Sustainable feeds in the supply chain: alternative feed ingredients - Part 1 (N)	6. From nutritional recommendation to feeding practice - Part 1 (N)
10:15 - 10:45	Coffee Break					
10:45 - 12:30	1. Breeding for reduced methane, feed efficiency, resiliency and its potential consequences (G)	2. Challenge session on The third state of the world report on AnGR. (G)	3. European resilient livestock farming systems in a continuously changing world. Part 1 (LFS;S+G)	4. Novel infrared (MIR/NIR) approaches on milk, urine, and feces to predict methane emissions and biomarkers (C;G)	5. Circular/Sustainable feeds in the supply chain: alternative feed ingredients - Part 1 (N)	6. From nutritional recommendation to feeding practice - Part 1 (N)
12:30 - 13:30	Lunch Break					
13:30 - 14:15	Poster session					
14:15 - 15:45	14. Utilization of automatically recorded traits (sensor data) in cattle breeding and production (G;PLF)	15. Safeguarding the Future: The Role of Livestock Diversity in Sustainable Agriculture (G)	16. European resilient livestock farming systems in a continuously changing world. Part 2 (LFS;S+G)	17. Beef on Dairy (I): Improving husbandry conditions of dairy beef calves both at the dairy and the fattening farms to gain better societal acceptance (C)	18. Circular/Sustainable feeds in the supply chain: alternative feed ingredients - Part 2 (N)	19. From nutritional recommendation to feeding practice - Part 2 (N)
15:45 - 16:15	Coffee Break					
16:15 - 18:00	14. Utilization of automatically recorded traits (sensor data) in cattle breeding and production (G;PLF)	15. Safeguarding the Future: The Role of Livestock Diversity in Sustainable Agriculture (G)	16. European resilient livestock farming systems in a continuously changing world. Part 2 (LFS;S+G)	17. Beef on Dairy (I): Improving husbandry conditions of dairy beef calves both at the dairy and the fattening farms to gain better societal acceptance (C)	18. Circular/Sustainable feeds in the supply chain: alternative feed ingredients - Part 2 (N)	19. From nutritional recommendation to feeding practice - Part 2 (N)
18:00 - 18:30						
18:30 - 22:00	Welcome Reception & Get-together					

Room Y8-9	Room Y4	Room Y3	Room Y5	Room Y6	Room Y7	Room Y10
7. Scientific Frontiers in Dairy Herd Health, Milk Quality and Adaptive Farm Managemet (C)	8. Resilient pigs in resilient farming systems – health, welfare and robustness in practice. How to cope with changing expectations and legislation - Part 1 (P;H+W)	9. Rethinking sustainability from a One Welfare perspective (H+W;LFS;C)	10. Positive welfare indicators (H+W;S+G;Po;P;C)	11. Insects and other alternative raw materials as feed for livestock animals (I;N)	12. Digital Innovations for Welfare and health focused Livestock Management - Part 1 (PLF;H+W)	13. Challenges to Mineral Balance and Intermediary Metabolism (Ph;N)
Coffee Break						
7. Scientific Frontiers in Dairy Herd Health, Milk Quality and Adaptive Farm Managemet (C)	8. Resilient pigs in resilient farming systems – health, welfare and robustness in practice. How to cope with changing expectations and legislation - Part 1 (P;H+W)	9. Rethinking sustainability from a One Welfare perspective (H+W;LFS;C)	10. Positive welfare indicators (H+W;S+G;Po;P;C)	11. Insects and other alternative raw materials as feed for livestock animals (I;N)	12. Digital Innovations for Welfare and health focused Livestock Management - Part 1 (PLF;H+W)	13. Challenges to Mineral Balance and Intermediary Metabolism (Ph;N)
Lunch Break						
Poster session						
20. How does longevity relate to the welfare of breeding animals? (C;H+W)	21. Resilient pigs in resilient farming systems – health, welfare and robustness in practice. How to cope with changing expectations and legislation - Part 2 (P;H+W)	22. Novel approaches to addressing the 3Rs and improving the 'culture of care' of animals in the poultry and animal sciences (H+W;S+G;Po;P;C)	23. Modern approaches in equine breeding: quantitative genetics and selection (H)	24. Physiological Disturbances on Livestock due to Microplastics and Other Pollutants (Ph)	25. Digital Innovations for Welfare and health focused Livestock Management - Part 2 (PLF;H+W)	26. Management practices for sustainable poultry (and livestock) systems: welfare, biodiversity, and life cycle perspectives (Po;P;H+W)
Coffee Break						
20. How does longevity relate to the welfare of breeding animals? (C;H+W)	21. Resilient pigs in resilient farming systems – health, welfare and robustness in practice. How to cope with changing expectations and legislation - Part 2 (P;H+W)	22. Novel approaches to addressing the 3Rs and improving the 'culture of care' of animals in the poultry and animal sciences (H+W;S+G;Po;P;C)	23. Modern approaches in equine breeding: quantitative genetics and selection (H)	24. Physiological Disturbances on Livestock due to Microplastics and Other Pollutants (Ph)	25. Digital Innovations for Welfare and health focused Livestock Management - Part 2 (PLF;H+W)	26. Management practices for sustainable poultry (and livestock) systems: welfare, biodiversity, and life cycle perspectives (Po;P;H+W)
Welcome Reception & Get-together						

TUESDAY															
ROOM	Room Z	Room X6	Room X7-9	Room X4-5	Room X2-3	Room X10	Room X11		Room Y8-9	Room Y4	Room Y3	Room Y5	Room Y6	Room Y7	Room Y10
08:30 - 10:15	27. Plenary session														
10:15 - 10:30	Coffee Break								Coffee Break						
10:30 - 12:30	27. Plenary session														
12:30 - 13:00	Lunch Break								Lunch Break						
13:30 - 14:15	Poster session								Poster session						
14:15 - 15:45	28. FA-BRE-TP Economics of genomic improvement, and its contribution to improve animal productivity while reducing environmental impact (G)	29. Multi-omics data integration in animal breeding (G)	30. Beef on Dairy (II): Management concepts, mating strategies and technologies for sustainable dairy and beef production (C)	31. When genetic potential meets production reality: implications for the animal (Ph;H+W;C)	32. Feeding strategies to optimise welfare (N;H+W)	42. Challenge session: the future of pig production research: Who needs researchers if we have AI? (P;PLF)	33. Unravelling the next generation animal nutrition: functional feed ingredients and additives - Part 1 (N)		34. Precision livestock feeding: Innovations and technologies optimizing animal welfare, productive performance and feed utilization (PLF;N)	35. Early career competition (pigs& poultry) (P;Po)	36. From threat to response – biosecurity in times of African Swine Fever, Avian Influenza and other infectious diseases (H+W;S+G;Po;P;C)	37. Omics for functional traits in horses (H)	39. Enhancing circularity in sustainable livestock systems: innovations, technologies and strategies (LFS)	40. Small Ruminant Genetics, Genomics, other -Omics and Breeding Advances to improve production and sustainability (S+G;G)	41. Phosphorus and other critical raw materials in poultry - joint EAAP-WPSA (Po)
15:45 - 16:15	Coffee Break								Coffee Break						
16:15 - 18:00	28. FA-BRE-TP Economics of genomic improvement, and its contribution to improve animal productivity while reducing environmental impact (G)	29. Multi-omics data integration in animal breeding (G)	30. Beef on Dairy (II): Management concepts, mating strategies and technologies for sustainable dairy and beef production (C)	31. When genetic potential meets production reality: implications for the animal (Ph;H+W;C)	32. Feeding strategies to optimise welfare (N;H+W)	43. Bridging physiology and precision livestock farming: automated quantification of physiologic, metabolic and environmental disturbances (PLF;Ph)	33. Unravelling the next generation animal nutrition: functional feed ingredients and additives - Part 1 (N)		34. Precision livestock feeding: Innovations and technologies optimizing animal welfare, productive performance and feed utilization (PLF;N)	35. Early career competition (pigs& poultry) (P;Po)	36. From threat to response – biosecurity in times of African Swine Fever, Avian Influenza and other infectious diseases (H+W;S+G;Po;P;C)	38. Advances in insect breeding and genetics (I;G)	39. Enhancing circularity in sustainable livestock systems: innovations, technologies and strategies (LFS)	40. Small Ruminant Genetics, Genomics, other -Omics and Breeding Advances to improve production and sustainability (S+G;G)	41. Phosphorus and other critical raw materials in poultry - joint EAAP-WPSA (Po)
18:00 - 19:30															
19:30 - 00:30	German Evening at Cap San Diego								German Evening at Cap San Diego						

WEDNESDAY

ROOM	Room Z	Room X6	Room X7-9	Room X4-5	Room X2-3	Room X10
08:30 - 10:15	44. Methodological Innovations for Genomic Analysis and Prediction (G;Ph)	45. Advances in Genomics and Breeding Across Livestock Species (G)	46. 'How does the diversity of European cattle and poultry livestock systems influence the quality of meat and milk, and the sustainability of farms?' Key outcomes from the European INTAQT project (C;Po;P;LFS)	47. Animal microbiomes - moving forward from taxonomic to functional information - in conjunction with the Horizon 2020 Holoruminant project - Part 1 (Ph)	48. Unravelling the next generation animal nutrition: functional feed ingredients and additives - Part 2 (N)	49. The role of intrinsic and extrinsic quality in beef industry (C)
10:15 - 10:45	Coffee Break					
10:45 - 11:30	44. Methodological Innovations for Genomic Analysis and Prediction (G;Ph)	45. Advances in Genomics and Breeding Across Livestock Species (G)	46. 'How does the diversity of European cattle and poultry livestock systems influence the quality of meat and milk, and the sustainability of farms?' Key outcomes from the European INTAQT project (C;Po;P;LFS)	47. Animal microbiomes - moving forward from taxonomic to functional information - in conjunction with the Horizon 2020 Holoruminant project - Part 1 (Ph)	48. Unravelling the next generation animal nutrition: functional feed ingredients and additives - Part 2 (N)	49. The role of intrinsic and extrinsic quality in beef industry (C)
11:30 - 12:30		Genetics Study Commission Meeting	Cattle Study Commission Meeting	Physiology Study Commission Meeting	Nutrition Study Commission Meeting	
12:30 - 13:30	Lunch Break					
13:30 - 14:15	Poster session					
14:15 - 15:15	57. Optimizing inclusion of novel traits into existing breeding goals (G)	58. From Phenomics to Practice: Phenomics, Interoperability, High dimensional data processing and On-Farm Decisions (G;PLF)	59. Regional Pathways of Dairy Development: Productivity, Sustainability and Climate-Smart Innovation (C)	60. Animal microbiomes - moving forward from taxonomic to functional information - in conjunction with the Horizon 2020 Holoruminant project - Part 2 (Ph)	61. Next generation nutrition solutions for poultry (N;Po)	62. Feeding, grazing and housing management to lower nitrogen and methane emission pressure to the environment (C;N)
15:45 - 16:15	Coffee Break					
16:15 - 18:00	57. Optimizing inclusion of novel traits into existing breeding goals (G)	58. From Phenomics to Practice: Phenomics, Interoperability, High dimensional data processing and On-Farm Decisions (G;PLF)	59. Regional Pathways of Dairy Development: Productivity, Sustainability and Climate-Smart Innovation (C)	60. Animal microbiomes - moving forward from taxonomic to functional information - in conjunction with the Horizon 2020 Holoruminant project - Part 2 (Ph)	61. Next generation nutrition solutions for poultry (N;Po)	62. Feeding, grazing and housing management to lower nitrogen and methane emission pressure to the environment (C;N)

Room Y8-9	Room Y4	Room Y3	Room Y5	Room Y6	Room Y7	Room Y10
50. Innovating Together: participatory, pluridisciplinary and multi-level approaches to livestock systems and agroecological transition (LFS)	51. Efficiency and mitigating emissions in pig production – strategies to reduce nitrogen and phosphorus losses, including amino acid nutrition - Part 1 (P;N)	52. Assessing Animal Welfare: Protocols, Indicators and Emerging Approaches (H+W;S+G;P;G)	53. The EUnetHorse project: results and new research perspectives (H)	54. Towards smart live-stock systems: next-generation PLF technologies and sound-based monitoring (PLF)	55. Digitalization, artificial intelligence and Precision Livestock Farming (PLF) in Small Ruminants: From Sensors to Decision Support. (S+G;PLF)	56. Optimal and sustainable insect production (I)
Coffee Break						
50. Innovating Together: participatory, pluridisciplinary and multi-level approaches to livestock systems and agroecological transition (LFS)	51. Efficiency and mitigating emissions in pig production – strategies to reduce nitrogen and phosphorus losses, including amino acid nutrition - Part 1 (P;N)	52. Assessing Animal Welfare: Protocols, Indicators and Emerging Approaches (H+W;S+G;P;G)	53. The EUnetHorse project: results and new research perspectives (H)	54. Towards smart live-stock systems: next-generation PLF technologies and sound-based monitoring (PLF)	55. Digitalization, artificial intelligence and Precision Livestock Farming (PLF) in Small Ruminants: From Sensors to Decision Support. (S+G;PLF)	56. Optimal and sustainable insect production (I)
LFS Study Commission Meeting	Pig Study Commission Meeting	Health & Welfare Study Commission Meeting	Horse Study Commission Meeting	PLF Study Commission Meeting	Sheep and Goat Study Commission Meeting	Insects Study Commission Meeting
Lunch Break						
Poster session						
63. Climate-smart livestock systems - holistic approaches to adaptation and mitigation to deliver global protein needs (LFS)	64. Efficiency and mitigating emissions in pig production – strategies to reduce nitrogen and phosphorus losses, including amino acid nutrition - Part 2 (P;N)	65. Animal welfare free communications (H+W;S+G;P;G)	66. Rethinking Equine Production in a Systemic Perspective (H)	68. Young EAAP	69. Animal Welfare Aspects and Future Perspectives in Sheep and Goat Production (S+G;H+W)	70. Challenges and opportunities in farming insects (I)
Coffee Break						
63. Climate-smart livestock systems - holistic approaches to adaptation and mitigation to deliver global protein needs (LFS)	64. Efficiency and mitigating emissions in pig production – strategies to reduce nitrogen and phosphorus losses, including amino acid nutrition - Part 2 (P;N)	65. Animal welfare free communications (H+W;S+G;P;G)	67. Human-animal relationship: handling methods and welfare for horses and farm animals (H;H+W)	68. Young EAAP	69. Animal Welfare Aspects and Future Perspectives in Sheep and Goat Production (S+G;H+W)	70. Challenges and opportunities in farming insects (I)

THURSDAY														
ROOM	Room Z	Room X6	Room X7-9	Room X4-5	Room X2-3	Room X10		Room Y8-9	Room Y4	Room Y3	Room Y5	Room Y6	Room Y7	Room Y10
08:30 - 10:15	71. Breeding for enhanced health and welfare (G;P)	72. Integration of Hologenomics and Epigenetics into Animal Breeding (G)	73. EGF session: Resilience of grasslands systems for sustainable livestock production (LFS;S+G;C)	74. Resilience and Structural Change in Dairy Regions Worldwide (C)	75. Methane mitigation via animal nutrition - Part 1 (N)	76. Improving fertility in Farm Animals (Ph)		77. Carbon accounting on farms: Between standardisation and site-specific realities (LFS)	78. Young Pig Management and Nutrition - Part 1 (P)	79. Advancing Animal Welfare Assessment with PLF Technologies: Insights from the aWISH Project and related research - Part 1 (H+W;S+G;PLF;Po;P;G)	80. Free Communications on Pigs (P)	81. Ethics, Data Management and Data Standardization in PLF with the future of AI (PLF)	82. Advances in feed production and conversion efficiency and small ruminant nutrient utilization (S+G;N)	83. Artificial intelligence applications in poultry farming systems (Po)
10:15 - 10:45	Coffee Break							Coffee Break						
10:45 - 12:30	71. Breeding for enhanced health and welfare (G;P)	72. Integration of Hologenomics and Epigenetics into Animal Breeding (G)	73. EGF session: Resilience of grasslands systems for sustainable livestock production (LFS;S+G;C)	74. Resilience and Structural Change in Dairy Regions Worldwide (C)	75. Methane mitigation via animal nutrition - Part 1 (N)	76. Improving fertility in Farm Animals (Ph)		77. Carbon accounting on farms: Between standardisation and site-specific realities (LFS)	78. Young Pig Management and Nutrition - Part 1 (P)	79. Advancing Animal Welfare Assessment with PLF Technologies: Insights from the aWISH Project and related research - Part 1 (H+W;S+G;PLF;Po;P;G)	80. Free Communications on Pigs (P)	81. Ethics, Data Management and Data Standardization in PLF with the future of AI (PLF)	82. Advances in feed production and conversion efficiency and small ruminant nutrient utilization (S+G;N)	84. Impact of early life nutrition on growth physiology and carcass characteristics of livestock. (Ph)
12:30 - 13:30	Lunch Break							Lunch Break						
13:30 - 14:15	Poster session							Poster session						
14:15 - 15:45	85. Enhancement of GxE methodologies in animal breeding (G)	86. Genetics and epigenetics in cattle: different approaches to study stressful events (C;P;G)	87. The role of multifunctional and extensive livestock systems in enhancing rural development and ecosystem services (LFS)	88. Resilient grazing and forage production, coping with environmental challenges in dairy production (C;N)	89. Methane mitigation via animal nutrition - Part 2 (N)	90. In vitro methodologies for ruminant and non-ruminant nutrition, including comparison with in vivo & ex vivo (N)		92. Value addition and special characteristics of AnGR - Particularities of local breeds (G)	93. Young Pig Management and Nutrition - Part 2 (P)	94. Advancing Animal Welfare Assessment with PLF Technologies: Insights from the aWISH Project and related research - Part 2 (H+W;S+G;PLF;Po;P;G)	95. Innovations in equine feeding and management strategies (H)	96. PLF technologies from research to practice: co-creation, start-up, scale-up, introducing farmers to technology (PLF)	97. Calf Rearing Under the Lens: Health, Welfare, and Physiological Outcomes (Ph)	98. Next-generation breeding strategies for resilient and ethical poultry production (Po)
15:45 - 16:15	Coffee Break							Coffee Break						
16:15 - 18:00	85. Enhancement of GxE methodologies in animal breeding (G)	86. Genetics and epigenetics in cattle: different approaches to study stressful events (C;P;G)	87. The role of multifunctional and extensive livestock systems in enhancing rural development and ecosystem services (LFS)	88. Resilient grazing and forage production, coping with environmental challenges in dairy production (C;N)	89. Methane mitigation via animal nutrition - Part 2 (N)	91. Nutri-omics/ Feed Omics in reference to animal health and welfare. (N;H+W)		92. Value addition and special characteristics of AnGR - Particularities of local breeds (G)	93. Young Pig Management and Nutrition - Part 2 (P)	94. Advancing Animal Welfare Assessment with PLF Technologies: Insights from the aWISH Project and related research - Part 2 (H+W;S+G;PLF;Po;P;G)		96. PLF technologies from research to practice: co-creation, start-up, scale-up, introducing farmers to technology (PLF)	97. Calf Rearing Under the Lens: Health, Welfare, and Physiological Outcomes (Ph)	98. Next-generation breeding strategies for resilient and ethical poultry production (Po)
18:00 - 19:30														
19:30 - 01:00	Gala Dinner at Curio Haus							Gala Dinner at Curio Haus						

Scientific programme

Monday 7 September

Session 1. Breeding for reduced methane, feed efficiency, resiliency and its potential consequences

Room: Room Z
Commission(s): Genetics
Chair(s): Pszczola, Egger-Danner
Session Type: Industry session

Theatre Session 1		Book of Abstracts page
8:30	Impact of Methane Data Processing Pipelines on Genetic Variance Component Estimation <i>C. I. V. Manzanilla-Pech, A. E. Van Breukelen, V. Milkevych, O. Gonzalez-Recio, B. Gredler-Grandl, R. F. Veerkamp, Y. De Haas</i>	148
8:45	Genetic parameters for longitudinal CH ₄ and CO ₂ concentrations from sniffer sensors in automatic milking systems <i>J. M. Mbuthia, M. Stassen, S. König</i>	149
9:00	Genetic parameter estimation for methane (CH ₄), carbon dioxide (CO ₂) and oxygen (O ₂) production in first parity Holstein cows <i>S. M. F. Cunha, F. S. Schenkel, F. Miglior, C. F. Baes</i>	150
9:15	Genetic parameters of sniffer-based enteric methane concentration in dairy cows <i>N. Saedi, R. B. Stephansen, T. M. Villumsen, M. S. Lund, V. Milkevych, P. Løvendahl</i>	151
9:30	Exploring the uniqueness of the genetic architecture of estimated methane emissions in Angler cattle based on existing prediction equations <i>K. Schröder, G. Thaller, L. Schwarz, M. Brandt, M. Gertz-Gerwinn, N. Gengler, Y. Chen, M. Albers, D. Hinrichs, N. Krattenmacher</i>	152
9:45	Phenotypic and genomic analyses of real and MIR-predicted methane phenotypes in Australian dairy cattle <i>S. Bolormaa, P. Ho, W. Hsieh, C. Vander Jagt, L. C. Marett, S. R. O. Williams, J. L. Jacobs, J. E. Pryce, R. Xiang</i>	153
10:00	Rumen metabolites as potential indicators to mitigate methane emissions in dairy cattle <i>C. K. Anene, E. Karaman, G. Sahana</i>	154
10:15 Coffee Break		
10:45	Genetic determinism of feed and water intakes and resilience traits in divergently selected RFI Romane sheep <i>C. Marie-Etancelin, K. Biard, J. L. Weisbecker, H. Lagarde, C. Coffre-Thomain, F. Tortereau</i>	155
11:00	Circadian feeding patterns in Swiss pigs are highly heritable and associated with feed efficiency <i>W. Gorssen, C. Winters, N. K. Kadri, N. Khayatzaadeh, H. Pausch</i>	156
11:15	Plasma metabolomic signatures differentiate Duroc pigs with divergent feed intake: insights into the molecular architecture of a complex trait <i>S. Bovo, M. Bolner, C. Lewis, J. Holl, B. Valente, G. Schiavo, F. Bertolini, L. Fontanesi</i>	157
11:30	Functional impact of RNA-Seq derived SNPs associated with feed efficiency in Nellore cattle <i>M. Teodoro, G. Gubiani, A. Maiorano, L. Mota, A. Cánovas, F. Baldi</i>	158
11:45	Genetic correlation between deep phenotypes and measured phenotypes of feed efficiency <i>N. Adhikari, A. Van Der Linden, B. Gredler-Grandl, R. F. Veerkamp</i>	159
12:00	Genetic analyses of the relationships among milk yield, feed intake, body weight and energy balance in Holstein Friesians using selected SNP subsets <i>C. Piefke, C. Schmidtman, H. Alkhoder, H. Schneider, J. Tetens, J. Bennewitz, G. Thaller</i>	160
12:15	Genetic parameters of residual carbon dioxide as a feed efficiency indicator in Fleckvieh cows <i>S. J. Burn, B. Fuerst-Waltl, A. Köck, K. Linke, C. Schmid, C. Egger-Danner, W. Zollitsch</i>	161
12:30	End of session	
Poster Session 1		Book of Abstracts page
1.1	The impact of selection for methane emissions in dairy cattle on herds with different sizes <i>C. Labauge, E. Tourrette, M. Eugène, L. Barreto-Mendes, B. Cd Cuyabano</i>	162

1.2	Genetic mitigation of methane emissions in Nordic Red dairy cattle through international data integration and joint genomic evaluation <i>E. Rius-Vilarrasa, S. Nyman, P. Ask-Gullstrand, T. Kligström, J. I. Ohlsson, M. Bjerring, K. A. Bakke, B. Heringstad, E. Negussie, M. Coffey, F. Miglior, T. M. Villumsen</i>	163
1.3	Mitigation strategies for methane emission in dairy cattle production <i>K. Msibi</i>	164
1.4	First measurements of methane emissions in the Manech Tête Rousse dairy sheep breed <i>F. Tortereau, N. Lesueur, G. Affraix, J. M. Astruc, C. Marie-Etancelin</i>	165
1.5	Development of QuickFlux for measuring enteric methane and carbon dioxide fluxes from dairy cattle and their association with dry matter intake <i>L. Cavani, A. Lago, G. Martinez-Boggio, E. Kebreab, F. Peñagaricano, S. Zimmerman</i>	166
1.6	Genetic and epigenetic hotspots in the Nelore cattle genome associated with residual methane emission <i>J. Afonso, T. F. Cardoso, J. J. Bruscadin, A. O. De Lima, W. J. D. S. Diniz, J. M. Malheiros, G. B. Mourao, A. Zerlotini, M. Tanurdzic, L. L. Coutinho, L. C. D. A. Regitano</i>	167
1.7	Estimation of genetic parameters of resilience indicators from feeding behavior in the Iberian pig <i>F. Barceló-Blasco, P. Núñez, N. Ibáñez Escriche, J. Casellas, M. Sánchez-Díaz, S. Negro, L. Varona</i>	168
1.8	Absence of trade-offs between productive traits and immune competence in Dohne Merino <i>T. Freire, G. Ciappesoni, I. De Barbieri</i>	169
1.9	Activity-based resilience indicators and their relationship with health in dairy cows <i>L. Büttgen, M. Van Der Sluis, R. De Mol, I. Van Dixhoorn, T. Fernandes Farias, E. D. Ellen</i>	170
1.10	Circadian rhythm of feed intake and heritability estimates in Romane sheep divergently selected for feed efficiency <i>L. Riaboff, F. Tortereau, K. Biard, H. Lagarde, C. Marie-Etancelin</i>	171
1.11	Heritabilities of Nitrogen Use Efficiency and Nitrogen Loss for Norwegian Red cows vary over the course of lactation <i>N. Shoukat, A. Kidane, T. K. Belay, T. Meuwissen, B. Heringstad</i>	172
1.12	Combining mechanistic energy allocation and genetic models to explore multiperformance in dairy sheep population <i>A. Irunal Veedu, F. Douhard, R. Rupp, J. Raoul</i>	173

Session 2. Challenge session on The third state of the world report on AnGR.

Room: Room X6
Commission(s): Genetics
Chair(s): Danchin, Leroy
Session Type: Theme session

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8:30	<i>Invited</i> The Third State of the World report on Animal Genetic Resources: first insights <i>G. Leroy, P. Ajayi, P. Boettcher</i>	174
9:00	<i>Invited</i> Reflections on genomic assessment of genetic variation and the future of the breed concept <i>G. Mészáros, P. Boettcher, D. Ouédraogo, P. Burger, L. Colli, I. Curik, K. T. Gebre, G. Gutierrez Reynoso, G. Leroy, C. Looft, R. Mrode, J. M. Mwacharo, K. Periasamy, A. Stella, Y. Utsunomiya, J. Windig, J. Sölkner, M. Wurzinger</i>	175
9:30	<i>Invited</i> Establishing and scaling up breeding programmes under challenging environments <i>F. Phocas, J. L. Gourdine, H. Gilbert, V. Ducrocq, J. Raoul, M. Wurzinger</i>	176
10:00	Discussion	
10:15 Coffee Break		
10:45	<i>Invited</i> The Evolving Role of the Private Sector in Livestock Breeding <i>C. Gonzales, Ç. Kaya, G. Cartick</i>	177
11:15	<i>Invited</i> Progress, Gaps, and Future Challenges in Animal Genetic Resources Management in Europe from a National Coordinator Perspective <i>E. Sosin, N. Svertedal, S. J. Hiemstra, S. Stojanović, J. Tomka, G. Polak, A. Chelmińska</i>	178
11:45	Discussion	
12:15	End of session	

Session 3.

European resilient livestock farming systems in a continuously changing world. Part 1

Room: Room X7-9
 Commission(s): Livestock Farming System, Sheep and Goat
 Chair(s): Sturaro, De Magalhaes, Hadjipavlou
 Session Type: Discovery session

Theatre Session 3		Book of Abstracts page
8:30	<i>Invited</i> European resilient livestock farming in a continuously changing world - Welcome & introduction <i>C. Lauridsen, J. Bérard</i>	179
8:45	<i>Invited</i> The New Era is Now: Sustainable Livestock Through Global Collaboration <i>T. Tiensin</i>	180
9:15	<i>Invited</i> Navigating the Future of Animal Protein in a Changing Global Landscape <i>E. Gocsik</i>	181
9:45	<i>Invited</i> Ensuring EU feed security and safety in a rapidly changing global environment <i>R. Hayler, J. Seifert, A. Van Den Brink</i>	182
10:15 Coffee Break		
10:45	<i>Invited</i> Exploring the Missing Middle: From Polarization to Systemic Responsibility in Europe's Protein Transition <i>M. Moretti</i>	183
11:00	<i>Invited</i> The social and economic challenges to farmers – how can generational renewal be achieved? <i>K. Wosnitza</i>	184
11:15	<i>Invited</i> EU Policy change related to the vision for agriculture and food, including simplification of EU rules and bureaucracy and comprehensive EU livestock strategy <i>B. Misonne</i>	185
11:45	<i>Invited</i> European resilient livestock farming in a continuously changing world - Panel discussion <i>C. Lauridsen</i>	186
12:30	End of session	

Session 4.

Novel infrared (MIR/NIR) approaches on milk, urine, and feces to predict methane emissions and biomarkers

Room: Room X4-5
 Commission(s): Cattle, Genetics
 Chair(s): Manuelian, Martin
 Session Type: Theme session

Theatre Session 4		Book of Abstracts page
8:30	Comparison of milk mid-infrared spectra and fatty acid-based models for predicting methane emissions <i>A. Köck, K. Linke, C. Schmid, F. J. Auer, M. Mayerhofer, J. Sölkner, T. Guggenberger, G. Terler, A. Steinwider, T. Ettl, V. Huber, E. Gerster, C. Egger-Danner</i>	187
8:45	Phenotypic and genetic prediction of methane emissions from milk mid-infrared spectra in Norwegian Red dairy cattle <i>G. Difford, B. Heringstad, K. Bakke, A. Gjuvsland, G. Gorjanc, J. Jenko</i>	188
9:00	Biological validation of MIR phenotyping for intake, nitrogen efficiency and methane production along the lactation curve in dairy cows <i>M. Frizzarin, E. Manzocchi, A. M. Reiche, P. Schlegel, G. Lazzari, M. Tretola, F. Schori, F. Dohme-Meier, C. Kasper</i>	189
9:15	Optimizing methane emission prediction using cattle faecal near-infrared spectroscopy across confinement and grazing systems <i>S. Jeon, D. Andueza, N. Baleret, C. Martin</i>	190
9:30	Faecal NIRS and its ability to predict digestive methane emissions in cattle supplemented with 3-NOP and Asparagopsis taxiformis additives. <i>D. M. Soares, N. Baleret, D. Parra, G. M. Marques, T. Domingos, R. J. Bessa, C. Martin, D. Andueza</i>	191

9:45	Mid-infrared prediction and genetic analyses of serum metabolites for evaluation of metabolic health in dairy cows <i>S. Gruber, G. Terler, A. Steinwider, T. Guggenberger, A. Köck, H. Schwarzenbacher, C. Egger-Danner, B. Fuerst-Waltl, J. Sölkner</i>	192
10:00	Improving milk mid-infrared prediction of dairy cow chronic stress biomarkers using machine learning and deep learning <i>H. Simon, C. Grelet, S. Franceschini, F. Dehareng</i>	193
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10:45	Mid-infrared spectroscopy for large-scale monitoring of urine traits in dairy cows <i>S. Magro, G. Niero, A. Guerra, M. De Marchi</i>	194
11:00	Prediction of Dry Matter Intake Based on Milk Mid-Infrared Spectra in Holstein Cattle <i>C. Machefert, S. J. Burn, D. Tulpan, A. Fleming, F. Schenkel, C. Baes, F. Miglior</i>	195
11:15	Decoding lipolysis through individual free fatty FT-MIR model: Enhancing predictive accuracy through real-sample enrichment and advanced algorithms <i>O. Christophe, D. Vesselko, J. Leblois, F. Dehareng, H. Soyeurt</i>	196
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11:45	Comparing spectral acquisition methods using a handheld NIR spectrometer for estimating legume content from legume–grass mixtures in Northern Sweden <i>G. Mantovani, P. Fant, M. Vadronova, D. Parsons, F. Righi, J. Oliveira</i>	198
12:00	BROMEDIR: Development and evaluation of a miniaturized FT-MIR instrument for in-farm milk analysis <i>C. Grelet, J. Fernández Pierna, Q. Arnould, D. Delhotte, M. Erfan, S. Labib, A. Kishka, E. Magdy, F. Essam, B. Mortada, Y. Sabry, P. Cousin, C. Bromedir, V. Baeten, F. Dehareng</i>	199
12:15	End of session	

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Session 5.

Circular/Sustainable feeds in the supply chain: alternative feed ingredients - Part 1

Room: Room X2-3
 Commission(s): Nutrition
 Chair(s): Ranilla García, Ottoboni, Foggi
 Session Type: Theme session

Theatre Session 5		Book of Abstracts page
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9:00	Dietary evaluation of Pleurotus ostreatus spent mushroom substrate as a sustainable feed ingredient for enhancing performance, egg oxidative stability and ovarian homeostasis in laying hens <i>I. Brouklogiannis, G. Koutrotsios, I. Pouloupoulou, G. I. Zervakis, K. C. Mountzouris</i>	204
9:15	Impact of Moringa oleifera leaf meal supplementation on the growth, nutrient digestibility, and meat quality of quails fed sorghum-canola-based diets <i>N. A. Sebola, T. C. Kujoana, H. K. Mokoboki, F. Manyeula, M. Mabelebele</i>	205

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Session 6. From nutritional recommendation to feeding practice - Part 1

Room: Room X10
 Commission(s): Nutrition
 Chair(s): Manaig, Alvarez-Rodriguez
 Session Type: Theme session

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	<i>S. E. Räisänen, T. Michou, M. R. Weisbjerg, M. Larsen</i>	
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Session 7.

Scientific Frontiers in Dairy Herd Health, Milk Quality and Adaptive Farm Management

Room: Room Y8-9
 Commission(s): Cattle
 Chair(s): Cieslak, Montanholi, Kuipers, Niero
 Session Type: Theme session

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8:45	Structural consolidation and sustainability priorities in the Polish dairy sector (2004–2026): lessons from a fast-transforming EU dairy region <i>A. Cieślak, J. Łagoda, J. Sznajder, J. Szczesny, S. Olorunlowu, M. Szumacher-Strabel</i>	240
9:00	Developments in the dairy sector in the Baltic States region: from recent trends to medium-term outlook <i>S. Zeverte-Rivza, A. Rizojeva-Silava</i>	241
9:15	Recent Developments in Dairy Farming in Slovenia and Croatia <i>M. Klopčič, M. Špehar</i>	242
9:30	<i>Invited</i> The Ukrainian Meat and Dairy Sector and Agricultural Science under Wartime Conditions: Current Challenges, Adaptation Mechanisms and Development Prospects <i>I. Ivanytskyi</i>	243
9:45	Description of risk factors and management practices associated to mastitis and milk quality on organic dairy farms across the USA <i>C. Niño De Guzmán, L. Prada, S. Bellinzoni, P. Muñoz, C. Hernandez, C. Iburguren, R. Weng, P. De Caso, Q. Kolar, V. Cabrera, B. Heins, R. Lynch, E. Miller-Cushon, G. Schuenemann, P. Pinedo, A. De Vries</i>	244
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10:45	Iodine in the dairy chain: from measurement to farm management, product characterization and consumer knowledge <i>G. Niero, S. Censi, C. Mian, M. De Marchi</i>	246
11:15	Association between calving interval, milk yield and early post-partum mortality among Swedish dairy cows <i>A. Hansson, M. Lindberg, R. Båge, A. Edvardsson Rasmussen, C. Kronqvist</i>	247
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7.2	Under construction – an approach to building animal welfare expertise in vocational training <i>C. Over, S. Ivmeyer, K. Cimer, J. Helmerichs, J. Brinkmann, S. March</i>	250
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Session 8.

Resilient pigs in resilient farming systems – health, welfare and robustness in practice. How to cope with changing expectations and legislation - Part 1

Room: Room Y4
 Commission(s): Pig, Health and Welfare
 Chair(s): Arnaud, Morgan, Aluwé
 Session Type: Theme session

Theatre Session 8		Book of Abstracts page
8:30	<i>Invited</i> Social Intermittent Suckling: Easing Weaning for Piglets and Sows <i>L. Fabà, L. Ferreres-Serafini, P. Langendijk, J. F. Pérez, S. M. Martín-Orúe, H. M. J. Van Hees</i>	254
9:00	The future perspectives of increasing within-litter body weight uniformity in pigs <i>K. Hooyberghs, S. Goethals, W. Gorssen, S. Millet, S. Janssens, N. Buys</i>	255
9:15	Dietary combination of β-galactomannans, plant extracts and monoglycerides improves survival and performance in post-weaning piglets <i>P. Martín-Atance, S. Carné, M. Verdú, X. Soldevila, J. Estévez</i>	256
9:30	Effect of supplementing gestating and lactating sow with a Citrus-based sensory feed additive on sow reproduction and piglet performance <i>J. Foglio, J. F. Gabarrou, E. Arnaud</i>	257
9:45	Effects of different combinations of dietary zinc and copper sources on their homeostasis, mitochondrial function, ATP concentrations and antioxidant response in different tissues in post-weaned piglets <i>J. V. Da Silva Duarte, J. S. Bee Tubin, I. Audet, D. Bueno Dalto</i>	258
10:00	The use of blood biomarkers to evaluate the impact of acute heat stress in piglets and growing finishing pigs <i>U. M. McCormack, E. Perez-Calvo, J. Zhang, Z. Wang, S. Wang, A. J. Cowieson</i>	259
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10:45	<i>Invited</i> Participatory identification of feasible pig welfare innovations to support resilient farming systems under evolving EU legislation <i>N. J. Tirchett, E. Garcia Manzanilla, V. A. Moustsen, A. Valros, P. Chevillon, V. Courboulay, P. Ferrari, J. Lorente Martín</i>	260
11:15	Updated Drinking Water Requirements and Key Influencing Factors in Cattle, Pig and Poultry Production <i>L. De Prekel, A. Van De Sompele, M. Lamerand, K. Goossens</i>	261
11:30	Natural Behaviour and Activity Pattern of Pigs: A comparative study of breeds and environments <i>M. Wolf, R. Thomsen, M. L. Buus, J. Küper, K. Frölich, I. Czycholl</i>	262
11:45	Changes in body dimensions of Irish sows over 20 years <i>A. Foley, L. Boyle, K. O'Driscoll, L. Jessiman, E. Baxter</i>	263
12:00	Botanical supplementation: An effective Approach to manage tail biting in pigs farm <i>C. Maltret, S. Cisse, M. E. A. Benarbia, A. Roques</i>	264
12:15	Ex vivo antimicrobial assay determines in vivo antibacterial activity of glycerides of lauric acid against S. suis <i>O. Lemâle, T. Meyns, A. Mellouk, N. Vieco-Saiz, M. Jlali, J. Consuegra</i>	265
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Session 9. Rethinking sustainability from a One Welfare perspective

Room: Room Y3
Commission(s): Health and Welfare, Livestock Farming System, Cattle
Chair(s): Blanco-Penedo, Boyle, Kuipers
Session Type: Discovery session

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8:30	Reframing sustainability for a fairer future for livestock farming: A One Welfare approach <i>L. Boyle, F. Johansen</i>	276
9:00	Aggregation of indicators for the multifunctionality of mountain dairy cattle farms: a One Welfare approach <i>A. Zoratti, S. Bovolenta, E. Benedetti Del Rio, S. Sari, L. Bava, A. Tamburini, M. Berton, E. Sturaro, M. Corazzin</i>	277
9:15	Integrating Positive Animal Welfare and One Welfare: A Socio-Environmental Framework for Sustainable Livestock Systems <i>J. Goracci, I. Blanco-Penedo, M. Battini, I. Antonik, I. Aytemiz Danyer, G. Batikas, X. Boivin, I. J. Boumans, D. Enriquez-Hidalgo, F. A. Galindo-Maldonado, R. García Pinillos, R. Kaura, H. L. Ko, P. Llonch, R. E. Nordquist, R. Yildiz, A. Yıldırım, L. Jung</i>	278
9:30	<i>Invited</i> Bringing animal welfare into sustainability: embedding animal wellbeing in Life Cycle Assessments <i>I. Kyriazakis, C. Wangui</i>	279
10:00	Development and on-farm implementation of a multidimensional sustainability assessment and benchmarking tool for pig and broiler production <i>L. Mertens, T. Van Daele, A. De Grande, E. Kowalski, E. Delezie, M. Aluwé</i>	280
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11:00	One Welfare on a Family Beef Farm: Human–Animal Co-Agency Driving Environmental Adaptation and Relational Innovation <i>X. Boivin, M. Larue, P. Spoljar, E. Delanoue, B. Mounaix, C. Couzy, G. Barbier, R. Lardy, L. Mirabito</i>	282
11:15	How to balance three welfare dimensions in dairy farm management <i>A. Kuipers, E. Koloszyck, M. Klopčic</i>	283
11:30	<i>Invited</i> Balancing three pillars of welfare to maintain a promising future for dairy farming in the USA <i>A. De Vries</i>	284
11:45	Integrating Animal Welfare into Sustainability Assessment of Livestock Systems: A Scoping Review and Expert Consultation <i>D. Sun, L. Smith, M. Almeida, E. Merlot, M. Gagaoua, I. Rivelli, D. Yanez-Ruiz, S. De Ponti, R. McGuire, D. Kenny, M. Vilain Rørvang</i>	285
12:00	Interrelationships between animal welfare and sustainability of on-farm best practices for poultry production <i>M. Perard, E. Caumette, G. Aubin-Houzelstein, A. Trocino, J. Nowak, J. Pawłowska, M. Ocepek, A. Jonassen, A. Collin, L. Elmersson</i>	286
12:15	Rational and Sustainable Rabbit Farming in Burkina Faso for Food Security and Income Creation for Vulnerable Populations: The SOAMBA project <i>L. Nompleggio, S. Giovannini, L. Bosa, A. Dal Bosco, S. Mattioli, C. Castellini</i>	287
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9.1	Farmers' Negative Emotions as a Component of the Administrative Burden of Farm Supervision <i>T. Simonen-Jokinen</i>	288
9.2	Animal welfare and sustainability of pasture-based dairy production: a Life Cycle Assessment modelling approach <i>M. Dos Santos Lima, L. Torricella, L. Annetti, G. Vignola, A. Collin,, M. Podaliri Vulpiani</i>	289

Session 10. Positive welfare indicators

Room: Room Y5
Commission(s): Health and Welfare, Sheep and Goat, Poultry, Pig, Cattle
Chair(s): Morgan, O'Driscoll
Session Type: Theme session

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8:30	<i>Invited</i> From preventing suffering to measuring positive welfare: Can biological markers reflect Animals' lifetime experiences? <i>L. Morgan</i>	290
9:00	Wool Cortisol Reveals Cumulative Welfare and Physiological Resilience in Sheep Production Systems <i>S. Ocak Yetişgin, U. Sen, H. Onder</i>	291
9:15	Telomere Length as a Genomic Biomarker of Environmental Stress in Dairy Goats <i>F. Sarubbi, R. Tudisco, A. Gallo, A. Siciliano, G. Cappelli, J. L. D'Auria, R. Pistucci, F. Infascelli, P. Iommelli, A. Iannuzzi</i>	292
9:30	Mapping Sleep Architecture in Nellore Beef Cattle: Validation of a Custom Polysomnography System <i>D. H. M. Watanabe, F. F. Alves, P. H. F. Torres, M. Lhamon, K. Donohue, B. O'Hara, D. D. Millen</i>	293
9:45	<i>Invited</i> Social touch as a positive welfare phenotype in livestock: a cross-disciplinary synthesis of sensory and behavioral evidence <i>C. Winters</i>	294
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10:45	<i>Invited</i> Benefits of temporary access to enriched environments for finisher pigs <i>M. Cupido, L. Boyle, S. Mullan, K. O'Driscoll</i>	295
11:15	Damaging and play behaviours linked to brain neurochemicals in pigs <i>G. Troupakis, I. Minussi, W. J. J. Gerrits, A. J. M. Jansman, M. Diepeveen-De Bruin, Y. Vermeiren, J. E. Bolhuis</i>	296
11:30	Group and individual patterns in calf activity during a play arena test <i>J. D. Bus, M. A. Mason, M. B. Jensen</i>	297
11:45	Herd lying concordance: a novel measure of resting coherence in dairy cows <i>G. Franchi, D. W. Olijhoek, L. K. Hilligsøe, N. P. Hansen, E. M. V. Hvas, E. H. Jensen, M. Larsen, L. J. Pedersen, M. B. Jensen</i>	298
12:00	Effect of a two-hour daily exit on milk quality, activities and outside behavior of Italian Simmental lactating cows <i>S. Arango, L. Bailoni, N. Guzzo, S. Currò, E. Bianco, E. Simonetti, S. Rainis, C. Sartori</i>	299
12:15	<i>Invited</i> Technologies for on-farm measurement of positive animal welfare: A scoping review <i>G. Batikas, J. Y. Chou, M. Battini, N. Blackie, M. Coutant, N. Esenbuga, B. Foris, L. Frondelius, R. Guatteo, A. M. Gutiérrez, M. A. Karatzia, R. Kaura, H. L. Ko, V. Ribikauskas, P. Seddaiu, D. Sun, N. Vázquez, R. Yildiz, O. Schmitt</i>	300
12:30	End of session	
	Poster Session 10	Book of Abstracts page
10.1	Identifying animal-based indicators for positive animal welfare in laying hens <i>M. Booijen, F. Hoorweg, M. Wolthuis-Fillerup, M. Van Der Sluis, J. E. Doornweerd, T. Johansson, A. Van Dolderen</i>	301
10.2	Sacred Care and Scientific Compassion: Integrating Positive Animal Welfare into Lifelong Management Systems of Indian Gaushalas <i>M. A. Karatzia</i>	302
10.3	Effect of enrichment provision and pair-housing on the development of calf locomotor play during the pre-weaning period <i>M. A. Mason, J. D. Bus, M. B. Jensen</i>	303

Session 11.

Insects and other alternative raw materials as feed for livestock animals

Room: Room Y6
Commission(s): Insects, Nutrition
Chair(s): Renna, Sibinga, Biasato, Schiavone
Session Type: Theme session

Theatre Session 11	Book of Abstracts page
8:30 <i>Invited</i> Black soldier fly larvae in poultry feed: nutrition, functionality, and challenges for sustainable production in a circular economy <i>G. Daş, S. M. M. Seyedalmoosavi, L. Syahrulawal, M. Mielenz, B. Kuhla, J. Zentek, C. C. Metges</i>	304
9:15 Dietary inclusion of <i>Hermetia illucens</i> oil in dairy cows: effects on rumen microbiota and fermentation parameters <i>L. Rastello, S. Colombini, I. Ferrocino, X. Dai, P. Toral, M. Battelli, M. Coppa, L. Gasco, M. Gerbelle, L. Verneti-Prot, A. Galli, C. Trespeuch, M. Renna</i>	305
9:30 Black soldier fly larvae (<i>Hermetia illucens</i>) fat as an alternative fat source to coconut fat in milk replacer for calves <i>N. S. Stöhr, M. H. Ghaffari, J. Hayer, T. Scheu, R. Schemmer, T. Priesmann, C. Koch, G. Dusel</i>	306
9:45 Influence of chitinase inclusion level and application method on the digestibility and utilization of black soldier fly meal in juvenile rainbow trout <i>S. Bellezza Oddon, A. A. Melis, I. Biasato, K. Loufi, Z. Loiotine, M. Van Spankeren, L. De Jong, L. Gasco</i>	307
10:00 Black soldier fly larvae (<i>Hermetia illucens</i>) meal as an alternative protein source in organic free-range laying hen production <i>N. S. Stöhr, J. G. Brettschneider, L. Schneider, R. Jha, G. Dusel</i>	308
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10:45 Effects of three feeding strategies based on black soldier fly larvae on gut health and redox status in fast-growing chickens <i>C. Paës, A. E. Abdel-Moneim, L. A. Guilloteau, F. Kempf, C. Gérard, S. Abousaid, V. Tondereau, V. Bezirard, H. Eutamène, E. Baéza, C. Trespeuch, P. Belloir, B. Méda</i>	309
11:00 Does gut health have a key role in shaping growth performance in insect-fed broilers? <i>I. Biasato, T. Hassan, D. Buzzanca, S. Bagatella, A. Schiavone, M. T. Capucchio, L. Gasco, A. Kenez, I. Ferrocino</i>	310
11:15 Effect of black soldier fly larvae oil and feed withdrawal on meat quality parameters in broilers subjected to cyclic heat stress during the final growth period <i>M. K. Atehortua, A. J. Maldonado, F. Sevillano, A. I. Rey, M. A. Ibañez, D. Menoyo</i>	311
11:30 Beyond soybean meal: alternative grain legumes in diets for broiler chickens <i>F. Bordignon, M. Pravato, M. Molin, G. Zorzi, C. Maucieri, G. Xiccato, V. Giannini, A. Trocino</i>	312
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11.1 Programmable automated dispenser for high-frequency delivery of dried black soldier fly larvae as behavioural enrichment in broilers <i>F. Sammo, M. Seehaus, C. Manteuffel, G. Daş, J. Langbein</i>	313
11.2 Italian consumers' concerns about the use of insect-derived products in ruminant feed: evidence from CUB models <i>G. Mastromonaco, V. M. Merlino, L. Rastello, L. Gasco, S. Massaglia, M. Renna</i>	314
11.3 Protein-rich, locally sourced feed ingredients efficiently utilized by young chicks <i>M. Traineau, J. Danel, I. De La Borde, P. Carre, M. Vilarino</i>	315
11.4 Impact of BSF Larvae Inclusion on Pig Growth <i>A. C. G. Monteiro, T. Mariano, R. Pereira, R. Fortunato, D. Murta, V. Pinheiro, D. Monteiro</i>	316
11.5 Effects of Replacing Plasma Meal with Defatted Black Soldier Fly (<i>Hermetia illucens</i>) Larva Meal on Post-Weaning Piglet Performance, Blood Parameters, and Histopathology <i>M. Parreiras, V. Pinheiro, O. Moreira, D. Monteiro</i>	317

Session 12.

Digital Innovations for Welfare and health focused Livestock Management - Part 1

Room: Room Y7
Commission(s): Precision Livestock Farming, Health and Welfare
Chair(s): Díaz de Otálora, Foris, Gautier, da Silva
Session Type: Theme session

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8:30 Recovering missing calving events to improve lactation number accuracy in commercial dairy cow datasets <i>A. Edvardsson Rasmussen, I. Ohlsson, T. Klingström</i>	318
8:45 Toward a digital model of dairy cow time budget and related energy expenditure <i>M. Danglot, O. Martin, M. Valenchon, C. Largouët, C. Gaillard</i>	319
9:00 Digital Transformation in Animal Assessment: A Mobile Application for Real-Time Data Collection and On-Site Analysis <i>M. Volk, L. Jung, D. Hinrichs</i>	320
9:15 Human classification of pig vocalizations shows limited context-independent emotional structure <i>C. Winters, B. Sleurs, W. Gorssen</i>	321
9:30 Low cost IoT system for monitoring environmental conditions and behavior in pig production <i>J. A. Osorio Saraz, V. Gonzalez Cadavid, F. A. Obando Vega, E. Herrera Pasos, A. M. Diaz Lopera</i>	322
9:45 Added value of multi-sensor behavioural monitoring in infectious disease trials: a case study with pigs challenged with African Swine Fever Virus <i>H. P. Doekes, B. Han, N. Oreshkova, R. De Jong</i>	323
10:00 Application of Multimodal IMU Metrics to the Behavioral Assessment of Pigs <i>D. Foy, T. Smith, J. Reynolds, T. Parsons</i>	324
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10:45 Development of an Automated Posture Prediction System for Sows Using Artificial Intelligence <i>T. Cochou, N. Barry, J. F. Bompá, W. Hébrard, S. Ferchaud, G. Delosières, M. Aletru, L. Canario, M. Bonneau</i>	325
11:00 Automated computer vision analysis of pig appeasing pheromone effects on social behaviour and welfare in group-housed sows <i>N. Ipek, J. Verwaeren, B. De Baets, F. Tuytens</i>	326
11:15 Camera-based computer vision monitoring of pig behaviour under heat stress <i>N. Hlel, D. A. Mendez, X. Díaz De Otálora, F. Estellés, S. Calvet, D. Liu, T. Norton</i>	327
11:30 Zero-shot computer vision-based analysis of social behaviour among group-housed sows <i>N. Ipek, J. Verwaeren, B. De Baets, F. Tuytens</i>	328
11:45 Moo4feed R package: Decoding individual animal narratives through precision livestock monitoring data <i>K. Sheng, B. Foris, D. Weary, M. Von Keyserlingk</i>	329
12:00 End of session	

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12.1 Influence of incomplete milking on the oxidative stress status in dairy cows during peak to mid lactation <i>K. M. Flüchten, P. M. Von Trotha, R. Joest, B. Heitkönig, C. Heinemann, U. Müller</i>	330
12.2 Automatic detection of cattle vocalizations based on spectrogram correlation, eigensounds, and deep learning embedding approaches <i>D. Gavojdian, L. S. Dragne, M. Mincu-Iorga, A. C. Olteanu</i>	331
12.3 Gender-Related Differences in Growth Performance, Carcass Traits and Blood Parameters of Finishing Pigs <i>J. Paié-Ribeiro, D. Outor-Monteiro, V. Pinheiro</i>	332
12.4 Automated Monitoring of Rabbit Activity Using Computer Vision: A Comparison of Gaussian, SAM3, and YOLO Algorithms <i>T. Monreal Fernandez, B. Fajardo Vilorio, E. Gil Vidal, F. Marco, S. Calvet, D. A. Méndez Reyes</i>	333
12.5 Can piglets self-regulate their intake when offered two contrasting diets differing in protein and energy? <i>M. Traineau, J. Danel, M. Vilarino</i>	334
12.6 Effects of incomplete milking during summer on metabolic and oxidative status in peak-lactation dairy cows: a pilot study <i>R. Joest, M. Ghaffari, T. Hartinger, U. Müller</i>	335
12.7 Hoof Temperature Differences in Relation to Lameness Score <i>T. Bobić, N. Raguž, M. Oroz, M. Oroz, Ž. Radišić, P. Mijić, B. Lukić</i>	336

12.8	Improving Real-Time Sow and Piglet Behavior Detection Using Mixed-ELAN Architecture	337
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Session 13. Challenges to Mineral Balance and Intermediary Metabolism

Room: Room Y10
Commission(s): Physiology, Nutrition
Chair(s): Wilkens, Koch
Session Type: Theme session

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8:30	Dietary Phosphorus Restriction Alters IGF Availability Independent of Hepatic GHR Signalling in Young Goats <i>K. Wittenberg, K. Hustedt, N. Schnepel, A. Hoeflich, A. S. Muscher-Banse</i>	339
9:00	Maternal methionine supplementation in low-protein diets during late gestation and lactation increases the performance and alters fecal microbiota of the sows and their offspring <i>Y. Duan, M. Wan, Y. Yin</i>	340
9:15	Comparison between copper sources and benzoic acid supplementation in weaned piglets <i>Y. J. Manaig, L. Blavi, A. Rigo Monteiro, S. Durosoy, S. Tibble, F. Gonzalez</i>	341
9:30	Effect of trace mineral source on copper, manganese, and zinc concentrations in ruminal content and feces of crossbred steers in grazing conditions <i>F. P. Leonel, D. Brito De Araujo, K. V. Z. Augusto, M. E. L. Rezende, T. Engle</i>	342
9:45	Calcium, bone and energy metabolism of dairy goats supplemented with poplar leaves during early lactation 343 <i>K. Helffenstein, M. R. Wilkens, B. Kuhla</i>	
10:00	Discovering the plasma metabolic fingerprint of heat-stressed Holstein dairy cows <i>F. Koch, D. Rico, R. Mandal, B. Kuhla</i>	344
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10:45	Proteome characterization of milk extracellular vesicles isolated from cows during heat stress <i>Y. Dadi, M. Delosiere, L. De Matos, A. Delavaud, M. Penati, D. Viala, G. Salvi, O. Balbi, A. Imbert, P. De Palo, A. Maggiolino, F. Cecilian, M. Bonnet, C. Lecchi</i>	345
11:00	Heat stress induced alterations in the hepatic lipid metabolism in primiparous dairy cows <i>S. M. Sarkar, D. Dannenberger, D. Rico, B. Kuhla, F. Koch</i>	346
11:15	Predicting subclinical ketosis in Holstein dairy cows using fatty acid content in milk <i>A. R. Sharifi, M. Zschiesche, N. Gengler, J. Hummel, H. Jansen</i>	347
11:30	Can milk fatty acid profile serve as a predictor of different types of hyperketolactia in dairy cows? <i>J. Kwaśniewska, W. Młoczek, K. Słoniewski, R. J. Van Saun, Z. M. Kowalski</i>	348
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12:00	The association of postpartum inflammatory-metabolic status with early-lactation milk yield in clinically healthy cows <i>N. Taechachokevivat, L. M. Avila-Granados, J. Grantz, A. Ueda, R. Neves</i>	350
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13.1	Effect of phosphate source on phosphorus digestibility in cows <i>C. Omphalius, A. Bonnel, C. Gousset, B. Ribeiro, S. Julliard</i>	351
13.2	Changes in rumen fermentation pattern with additional dietary potassium supply <i>Y. Zhang, H. Han, J. Guyader, S. Li</i>	352
13.3	The effects of total dietary copper, sulfur, molybdenum, and Cu:Mo ratio on Cu status of sheep: A meta-analysis <i>J. A. Johnson, J. L. Ellis, G. B. Penner</i>	353

13.4	Influence of copper source on hepatic Cu accumulation, redox status and bile acid profiles in weanling and growing pigs <i>S. Cros, M. Fornòs, A. Monteiro, I. R. Ipharraguerre, G. Rimbach, H. H. Stein, J. F. Perez, D. Solà</i>	354
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Session 14. Utilization of automatically recorded traits (sensor data) in cattle breeding and production

Room: Room Z
Commission(s): Genetics, Precision Livestock Farming
Chair(s): Egger-Danner, Cesarani
Session Type: Theme session

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14:30	Personality-informed genomic prediction of sensor-derived feeding behaviour and resilience traits in dairy cows <i>A. Seidel, P. Hasenpusch, T. Wilder, G. Thaller</i>	356
14:45	Genetic parameters of rumination and eating behaviour in Holstein cows monitored using collar-based precision livestock farming sensors <i>V. Brajkovic, M. Oroz, M. Oroz, N. Raguz, I. Drzaic, M. Shihabi, M. Špehar, T. Bobic, I. Curik, B. Lukic</i>	357
15:00	Big Data Meets Behavior: Genetic Characterization of AMS-Based Indicators in Dairy Cows <i>J. Stuhlträger, F. Rosner, S. König, L. Behren, L. Breitmeier, H. H. Swalve</i>	358
15:15	Genetic parameters of feeder replacement traits from electronic feeders' records in cattle <i>J. D. P. S. Valente, L. F. M. Mota, G. R. D. Rodrigues, T. L. S. Soares, J. A. Silva, K. D. S. Pinto, L. F. C. Araujo, R. C. Canesin, S. F. M. Bonilha, J. N. S. G. Cyrillo, M. E. Z. Mercadante</i>	359
15:30	Relationship between daily milking records and health status of dairy cows <i>E. Kašná, L. Zavadilová, Z. Krupová</i>	360
15:45 Coffee Break		
16:15	ICAR/IDF Sensor Initiative: Guidelines and reference standards for using rumination sensor data in animal health and welfare - recommendations for sensor data use for genetic evaluation <i>C. Eggerdanner, I. Klaas, L. Brito, J. Bewley, V. Cabrera, S. Dagan, R. Fourdraine, N. Gengler, M. Haskell, B. Heringstad, M. Hostens, M. Iwersen, F. Karlsson, G. Katz, M. Moleman, M. Phelan, E. Rossi, K. Schodl, D. Sieben, K. Stock, A. Stygar, E. Vasseur</i>	361
16:30	Three-dimensional imaging provides scalable body weight phenotypes for management and breeding in dairy cattle <i>C. Bengtsson, K. Kupisiewicz, R. Bak Stephansen, J. Lassen</i>	362
16:45	Grazing traceability of dairy cows with GPS and accelerometer sensors. <i>C. Allain, A. Delpeuch, M. Vimont, M. Legris</i>	363
17:00	Effect of eating dynamics on enteric gas concentration recorded via sniffer in dairy cows <i>G. Giagnoni, M. Bjerring, V. Milkevych, T. M. Villumsen</i>	364
17:15	Non-invasive infrared measurement of exhaled methane in dairy cows based on spot sampling during automatic milking <i>F. Neubert, A. M. Scholz, A. K. Calliotte, C. Schmidt, P. V. Kremer-Rücker</i>	365
17:30	Broader potential applications of sniffer systems: A pilot study of installation on automatic feeder station <i>C. Rossi, G. Grossi, N. Lacetera, A. Vitali</i>	366
17:45	Proxies for early lactation ketosis in Austrian Fleckvieh dairy cattle based on daily milk yield and rumination data <i>K. Schodl, B. Fuerst-Waltl, F. Steininger, C. Egger-Danner</i>	367
18:00 End of session		
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14.1	AI-based 3D monitoring of behavior and welfare indicators in cows during the preclinical phase of atypical BSE <i>S. Jahn, S. Ernst, C. Fast, T. Homeier-Bachmann</i>	368

14.2	Sniffing the sustainable dairy future: experiences establishing methane emissions monitoring in Swedish dairy herds	369
<i>I. Ohlsson, I. Clegg, E. Lövbom, E. Rius-Vilarrasa, P. Ask-Gullstrand, S. Nyman, A. Medved, B. Gustafsson, L. Bark, M. Bjerring, T. Villumsen, T. Klingström</i>		

Session 15.

Safeguarding the Future: The Role of Livestock Diversity in Sustainable Agriculture

Room: Room X6
Commission(s): Genetics
Chair(s): Berg, Mészáros, Lino Neto Pereira
Session Type: Theme session

Theatre Session 15		Book of Abstracts page
14:15	Invited Combining population and quantitative genetics to improve genomic prediction <i>E. Tourrette, G. Hélène, B. Servin</i>	370
14:45	Breeding Perspectives on Red and White Dual-Purpose Cattle: Results from a Multinational Survey <i>M. Albers, F. Schmidt, Y. Huppertz, N. Gengler, D. Hinrichs, G. Thaller, N. Krattenmacher</i>	371
15:00	Impact of relationship matrices on inbreeding control in pig populations under optimum contribution selection <i>K. Kelles, N. Leite, M. Van Son, Y. Wientjes, E. Hanenberg, E. Grindflek, P. Berg, T. Meuwissen</i>	372
15:15	Performance of optimal contribution selection depends on the accuracy of selection candidates <i>J. R. Thomasen, H. M. Nielsen, M. Kargo, S. Tenhunen, H. Liu</i>	373
15:30	Surveying and evaluating UK farm animal genetic diversity estimates <i>C. M. Rochus, C. F. Price, I. Pocrnić</i>	374
15:45 Coffee Break		
16:15	A genomic survey of the Romagnola beef cattle breed <i>D. Colombi, F. Sbarra, F. Perini, A. Quaglia, E. Lasagna</i>	375
16:30	Seven decades in liquid nitrogen: Viability and fertility of historic bovine semen <i>R. Herbicht, K. Jilek, C. Klein, H. Henning</i>	376
16:45	Genomic diversity and population structure in Nordic Red Dairy Cattle populations <i>S. Tenhunen, L. P. Sørensen, A. Gjuvsland, J. R. Thomasen, M. Kargo, P. Uimari</i>	377
17:00	Global Variability of the Chicken D-Gene Region <i>J. Geibel, M. Brunner, A. Weigend, C. Reimer, T. V. L. Berghof, S. Weigend, B. Schusser</i>	378
17:15	Genomic consequences of a historical bottleneck after demographic recovery in the Old Norse sheep <i>C. Brekke, P. Berg</i>	379
17:30	Native African cattle as important genetic resource for environmental adaptation <i>J. Friedrich, S. Kambal, N. A. Adossa, A. M. Ahbara, M. T. Makumbe, O. Matika, J. M. Mwacharo, K. Bougiouri, F. Racimo, O. Hanotte, P. Wiener</i>	380
17:45	Comparison of genomic vs pedigree-based inbreeding in the Italian Simmental cattle breed <i>N. Macciotta, L. Degano, D. Vicario, C. Dimauro, A. Cesarani</i>	381
18:00	End of session	
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15.1	Detection of homozygosity and heterozygosity rich regions on German Black-Headed Mutton x Kivircik (Bandırma) sheep population <i>S. Koncagül, A. Özdemir, A. Kasakolu</i>	382
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15.4	Genetic diversity and effective population size in the Belgian Landrace pig: insights from SNP genotypes and pedigrees <i>S. Guan, R. Meyermans, W. Gorssen, K. Hooyberghs, L. Chapard, N. Buys, S. Janssens</i>	385
15.5	Phenotypic data to assess the resilience potential of Sicilian cattle breeds in the context of climate change <i>A. Antoci, S. Tumino, M. Carlentini, G. Chessari, A. Criscione, S. Bordonaro, D. Marletta</i>	386
15.6	Challenges for the Conservation of Farm Animal Genetic Resources under Emerging Animal Diseases <i>E. Sosin, A. Chelmińska</i>	387

Session 16.

European resilient livestock farming systems in a continuously changing world. Part 2

Room: Room X7-9
Commission(s): Livestock Farming System, Sheep and Goat
Chair(s): Sturaro, De Magalhaes, Hadjipavlou
Session Type: Discovery session

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14:15	Invited From concept to measurement: Advancing resilience analysis in small ruminant farming systems <i>D. Martin-Collado, A. Bernués, M. Y. R. Couto, A. Prat-Banhamou</i>	388
14:45	Using extended lactations to shape resilience of goat farming systems: a modelling approach <i>C. Descheerder, O. Martin, F. Bidan, C. Duvaux-Ponter, L. Puillet</i>	389
15:00	The Aegean sheep breed revisited: Phenotypic description and husbandry characteristics in island flocks of Greece <i>M. Karatzia, I. Bouzalas, T. Papadopoulos, E. Kanaki, A. Lympelopoulous, T. Vanikiotis, I. Chaligiannis, L. Ekateriniadou</i>	390
15:15	Role of territorial stakeholders in the management of risks arising from interactions between wildlife and pastoral livestock systems <i>I. Mokrani, M. Ockman, C. Bellanger, M. Ben Abdellah, L. Chaland, H. Debay, H. Faber, C. Gauvrit, E. Ruelle, A. Vedrine, M. Virapin</i>	391
15:30	Drivers of abandonment risk in autochthonous livestock systems: preliminary results from Castilla-La Mancha. 392 <i>J. Claros-Zafra, J. M. Perea, M. A. Cantarero-Aparicio, R. Arias, J. M. Gallardo, E. Angón</i>	
15:45 Coffee Break		
16:15	Invited Resilience of European Livestock Systems: multi-scale, context-specificity and methodological insights <i>F. Accatino</i>	393
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17:00	Intensive holm oak plantations as a climate adaptation strategy to enhance resilience of traditional Iberian pig production systems <i>J. García-Gudiño, A. Ortiz, M. Freire, J. M. Pérez-Rodríguez, A. I. Del Rosario, L. León, D. Tejerina</i>	395
17:15	Multidimensional information system for zootechnics: the case study of buffalo farm and the dark side of outsourcing drivers <i>D. Vecchio, M. Serrapica, G. Di Vuolo, G. Cappelli, V. Lorenzi, C. D. Ambra, F. Serrapica, A. Vastolo, G. Rofrano, L. J. D'Auria, A. Atzori, G. Stilwell, L. A. De La Cruz Cruz, A. Zanella, M. Giampietro, A. Fierro</i>	396
17:30	Supply chain vulnerability in protein reduced poultry nutrition: A scenario approach to amino acid supply disruption in broiler production <i>J. Gickel, C. Visscher</i>	397
17:45	End of session	

Session 17.

Beef on Dairy (I): Improving husbandry conditions of dairy beef calves both at the dairy and the fattening farms to gain better societal acceptance

Room: Room X4-5
 Commission(s): Cattle
 Chair(s): Hammon, Bachmann
 Session Type: Theme session

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14:15 <i>Invited</i> Building a resilient dairy-beef calf: Integrating genetics, early-life management, and producer decision-making <i>D. Renaud</i>	398
14:45 Early group housing of female dairy calves: first results of the COLOCAVO project <i>D. Fouvez, G. Trou, C. Roy, L. Oble, F. Lepeltier, V. Lollivier, F. Crepel, M. Le Guenic, M. Vimont, C. Hardy, L. Mirabito</i>	399
15:00 Is increasing pellet diameter an effective strategy to achieve the withdrawal of straw (forage) in the fattening of crossbred dairy beef calves under straw (forage) scarcity? <i>L. Llonch, S. Marti, A. Solé, J. Riera, C. Medinyà, J. Cucurull, M. Devant</i>	400
15:15 Grass-based or maize-based TMR for young bulls have similar effects on growth and carcass quality but different effects on health <i>M. Vestergaard, M. L. Petersen, A. M. H. Kjeldsen, N. B. Kristensen</i>	401
15:30 Reduction of stocking density during the transport of finishing dairy beef calves to the slaughterhouse: truck thermal microclimate and calves' stress indicators <i>A. Martín, N. Naranjo, M. Devant, M. Herskin, Z. Chen, T. Norton, S. Marti</i>	402
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16:45 Comparison of organ development at arrival in transported dairy beef calves from two origins: multi origin marketed calves and calves sourced directly from proximity dairy farm <i>C. J. García Vázquez, M. Devant, S. Marti</i>	404
17:00 Nutritional strategy combining sensory additives and olive bioactives enhances post-transport recovery of dairy beef calves with pneumonia <i>A. Martín, M. Blanch, M. Devant, S. Marti</i>	405
17:15 An overview of dairy-calf systems for meat production in north-west Europe <i>P. Crosson, B. Berthelot, P. Madrange, A. Mertens, C. Battheu-Noirfalise, E. Henrotte, R. Reading, R. Riedel, F. Kaemena, I. Morel</i>	406
17:30 <i>Invited</i> Who Is Willing to Compromise? Consumer Clusters, Societal Acceptance of Alternative Housing Systems and Trade-Offs in German Beef Cattle Production <i>F. Von Steimker, E. Bayer, S. Kühl</i>	407
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17.2 Effects of weaning protocols on feed intake and growth performance in calves fed milk replacer ad libitum until 7 weeks of age <i>A. Stoschus, L. E. Diesing, T. Nieschulze, K. Braun, W. Liermann, H. M. Hammon</i>	409
17.3 Changes of metabolic traits in blood of dairy calves after ad libitum milk feeding using different weaning protocols <i>L. E. Diesing, A. Stoschus, T. Nieschulze, K. Braun, W. Liermann, H. M. Hammon</i>	410
17.4 Effect of weaning duration (3 vs. 6 weeks) on plasma acylcarnitine and free fatty acid profiles in ad libitum-fed dairy calves <i>M. Hosseini Ghaffari, A. Stoschus, L. E. Diesing, S. Schuchardt, H. M. Hammon</i>	411
17.5 Prevalence of ESBL/AmpC-E. coli before and after the implementation of specific intervention measures in two dairy farms <i>J. F. Kleist, C. Silhavy, T. Homeier-Bachmann, L. Bachmann</i>	412

17.6 Lung scanning at arrival of calves in veal calf herds <i>H. L. Martin, A. M. Kjeldsen</i>	413
17.7 Normal or low iron level in milk replacers for 1 to 2 months old dairy-beef calves <i>C. B. S. Geven, N. B. Kristensen, H. L. Martin, M. L. Petersen, M. Vestergaard</i>	414
17.8 Alternative forage sources to wheat straw in crossbred dairy beef calves fed high-concentrate diets <i>L. Llonch, S. Marti, A. Solé, N. Naranjo, Á. Serrano, J. Riera, C. Medinyà, J. Cucurull, M. Devant</i>	415
17.9 Performance and Meat Quality of German Holstein Steers in a Silvopastoral System <i>T. Krebs, A. Boldt, R. Wulf, S. Maak, K. Barth</i>	416
17.10 Evaluating short and long colostrum replacer protocols to support recovery in dairy beef calves after transportation <i>C. J. García Vázquez, M. Verdu, J. Cucurull, X. Soldevila, M. Devant, S. Marti</i>	417
17.11 Evaluation of the effect of social housing practices for replacement and fattening calves from birth to transport and later stages of life <i>J. J. Hayer, A. Peine, C. Göckeritz, K. Bauch, P. Berghuis, S. Schäfer, P. Schneider, D. Frieten, I. Steinhöffel</i>	418
17.12 Comparative effects of two sensory feed additives on recovery and adaptation of commercially transported unweaned dairy beef calves from arrival to post-weaning <i>J. J. Narváez, N. Llanes, M. Blanch</i>	419
17.13 Spanish consumer preferences for meat credence signals in beef and lamb: evidence from a mixed logit model <i>M. A. Cantarero-Aparicio, E. Angón, J. Claros-Zafra, M. Luque-Cuesta, J. M. Perea</i>	420
17.14 Better-Calf: Dairy calf systems for resilience, welfare and sustainability in rural territories <i>P. Crosson, B. Berthelot, A. Mertens, C. Battheu-Noirfalise, E. Henrotte, R. Reading, R. Riedel, F. Kaemena, I. Morel, P. Madrange</i>	421

Session 18.

Circular/Sustainable feeds in the supply chain: alternative feed ingredients - Part 2

Room: Room X2-3
 Commission(s): Nutrition
 Chair(s): Ranilla García, Ottoboni, Foggi
 Session Type: Theme session

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14:15 Fresh vs. ensiled Rose (Rosa rugosa Thunb.) pomace: effects on rumen methane production and fatty acid biohydrogenation in vitro <i>S. Olorunlowu, P. Sidoruk, J. Sznajder, J. Szczesny, B. Ola, S. Ślusarczyk, A. Cieslak</i>	422
14:30 Effect of a combination of hazelnut and cocoa bean by-products on in vitro ruminal fermentation and biohydrogenation <i>R. Senatore, M. Coppa, C. Baila, G. Hervás, P. Cornale, P. Frutos, P. G. Toral</i>	423
14:45 Effect of carrot inclusion level on the in vitro fermentation kinetics of dairy sheep diets <i>C. Saro, A. Díaz, I. Mateos, N. Merino, S. López, M. J. Ranilla</i>	424
15:00 Rumen degradability, fermentation dynamics, and methane production of potato co-products using in vitro batch culture and rumen simulation technique <i>M. Hassan, C. Christodoulou, S. Ormston, K. E. Kliem, P. Kirton, N. Coetzee, R. Pilgrim, D. R. Yañez-Ruiz, A. Belanche, L. G. Smith, N. Davison, S. Stergiadis</i>	425
15:15 Can corn in a dairy sheep ration can be replaced with cull carrots? <i>N. Merino, J. Giráldez, A. Díaz, C. Saro, I. Mateos, J. Mateo, I. Caro, M. J. Ranilla</i>	426
15:30 Valorization of agro-industrial by-products: effects of brewery spent grains and olive leaves on milk quality and sustainability indicators in grazing ewes <i>V. Bolletta, M. Pauselli, E. Lilli, M. Vispi, B. Valenti</i>	427
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16:15 Sesame Seed Meal as a Local Alternative Protein Source in Lamb Diets: Effects on Animal Performance and Meat Quality <i>A. Natalello, M. S. Cannone, M. Musati, S. Privitera, F. Mangano, A. Bertino, M. Lanza, G. Luciano, L. Biondi, A. Priolo, G. Mangione</i>	428
16:30 Replacing soybean products with dried brewer's grains and sunflower meal in light lambs' diets: implications on meat quality and fatty acid profile. <i>J. L. Lema-Hurtado, J. M. Arroyo, T. De Evan, A. Recalde, J. Mateo, M. Dehnavi, M. D. Carro</i>	429

16:45	Long-term impact of avocado seed (<i>Persea Americana</i> L.) inclusion during early-life on ruminal fermentation, blood parameters, fertility and milk yield performance in Murciano-Granadina goats	430
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17:45	From waste to worth: Chemical, physical and functional properties of spent mushroom substrates with implications for ruminant nutrition	434
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Session 19. From nutritional recommendation to feeding practice - Part 2

Room: Room X10
 Commission(s): Nutrition
 Chair(s): Manaig, Alvarez-Rodriguez
 Session Type: Theme session

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14:15	Effects of adaptation length to non-roughage finishing diets on intake, performance, and carcass traits of <i>Bos indicus</i> cattle	448
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15:15	Compositional and Nutritional Differences Among Major Forages in the Po Valley: A One-Year Analysis	452
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15:30	Can entire male pigs be fatter by switching the sire line from Pietrain to Duroc or increasing dietary energy?	453
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15:45	Coffee Break	
16:15	Impact of increased dietary phytase levels during gestating sows on offspring performance, bone mineral content and mechanical properties	454
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16:30	Molecular mechanism and nutrition regulation of meat quality traits in Chinese Indigenous Pigs	455
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19.4	Optimizing early and mid-gestation feed allowance improves litter outcomes in sows under summer heat stress	462
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Session 20. How does longevity relate to the welfare of breeding animals?

Room: Room Y8-9
 Commission(s): Cattle, Health and Welfare
 Chair(s): Meier, Boyle
 Session Type: Discovery session

	Theatre Session 20	Book of Abstracts page
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15:15	<i>Invited</i> Investigations on an optimal longevity of dairy cows in practical farms in the North-East of Germany <i>A. Römer, J. Harms, A. Boldt, P. Sanftleben</i>	466
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16:30	Longitudinal evidence that genomic functional longevity reflects biological resilience in Holstein Friesian cows <i>M. Hosseini Ghaffari, N. Melzer, D. Wittenburg, M. Elsabagh, D. Becker, F. Becker, C. Kröger-Koch, H. M. Hammon</i>	468
16:45	Sow longevity: phenotypic time trends, the effect of litter size, and economic values <i>P. Knap, J. Holl, C. Lewis</i>	469
17:00	Long-life sows: how breeding performance tailors longevity in breeding farms <i>A. Arrazola, R. Quintanilla, N. Alòs, L. Tusell, J. Tarrés</i>	470
17:15	A multi model, multi imputation framework for predicting sow culling risk across parities <i>M. Sungirai, C. Mulvenna, R. Muns</i>	471
17:30	End of session	

Session 21. Resilient pigs in resilient farming systems – health, welfare and robustness in practice. How to cope with changing expectations and legislation - Part 2

Room: Room Y4
 Commission(s): Pig, Health and Welfare
 Chair(s): Arnaud, Morgan, Aluwé
 Session Type: Theme session

	Theatre Session 21	Book of Abstracts page
14:15	<i>Invited</i> Extensification is not one-dimensional: contrasting welfare and meat quality responses to space, enrichment and roughage in fattening pigs <i>M. Coutant, M. S. Hedemann, M. S. Grønbeck, M. Hviid, L. J. Pedersen, M. L. V. Larsen</i>	472
14:45	Straw in, straw out: Do quantity and location of straw affect pig health in welfare label farms? <i>N. Nöllenburg, C. Winckler, S. Schwarz, C. Leeb</i>	473
15:00	Effects of farrowing in pens or crates on sows and piglets <i>A. Vernunft, C. Gladbach, H. Lickfett, M. Oster, K. Wimmers</i>	474
15:15	<i>Invited</i> Balancing productivity and welfare to improve resilience in modern pig farming systems <i>K. O'Driscoll</i>	475
15:45	Coffee break	
16:15	Castration alternatives in European pig production: Welfare outcomes, technical feasibility and adoption trends <i>M. Almeida, J. Teixeira, D. Monteiro, V. Pinheiro, S. Silva, V. Courboulay, P. Chevillon</i>	476
16:30	<i>Invited</i> Duration of muscle excitations during inert gas stunning of slaughter pigs: Do they influence meat quality? <i>J. Gelhausen, I. Wilk, D. Mörlin, J. Tetens, J. Knöll</i>	477

17:00	Longitudinal study: Swine inflammation and necrosis syndrome in suckling piglets is associated with tail length and integrity in slaughter pigs of two organic farms in the Netherlands <i>K. Koenders - Van Gog, E. Krooshoop, T. Wijnands, M. Lechner, G. Reiner</i>	478
17:15	Status quo of pre-weaning mortality in organic farms in Germany <i>H. Lickfett, W. Vogt-Kaute, E. Hofinger, M. Kötter-Jürß, G. Schnieders, D. Mai, A. Vernunft</i>	479
17:30	Histopathological characterization of ear damage caused by ear biting and aggression in recently weaned pigs <i>L. Markland, L. Boyle, F. Leonard, K. O'Driscoll, P. Kelly</i>	480
17:45	End of session	

Session 22. Novel approaches to addressing the 3Rs and improving the 'culture of care' of animals in the poultry and animal sciences

Room: Room Y3
 Commission(s): Health and Welfare, Sheep and Goat, Poultry, Pig, Cattle
 Chair(s): Franchi, Stadnicka
 Session Type: Theme session

	Theatre Session 22	Book of Abstracts page
14:15	<i>Invited</i> Preweaning mortality in laboratory mouse breeding: an animal science and veterinary perspective on a 3R challenge <i>I. A. S. Olsson, S. Capas Peneda, S. Brajon, C. Gilbert, G. Munhoz Morello</i>	481
14:45	<i>Invited</i> Animal welfare definitions, frameworks, and assessment tools: Advancing the measurement and laying the foundation for improved animal welfare through a three-step approach <i>F. J. Van Der Staay, V. C. Goerlich, F. L. B. Meijboom, S. S. Arndt</i>	482
15:15	<i>Invited</i> Rethinking animal welfare through the microbiota: early maternal microbial contact builds immune resilience in commercial broilers <i>H. Zhao, A. De Ceuster, M. Z. Akram, L. Comer, E. Fako, M. Corion, N. Everaert</i>	483
15:45	Coffee Break	
16:15	Ruminant specific multi enzymatic in vitro model accurately predicts in vivo feedstuffs degradability and digestibility to phase out of fistulated reference trials <i>C. Pineda Vadillo, L. Drouet, C. Favier, C. Vaz Torralba, N. Couvreur, A. Brame, S. Klein</i>	484
16:30	Accurate prediction of apparent metabolizable energy of feedstuffs using a poultry-specific in vitro digestion model <i>C. Pineda Vadillo, C. Favier, J. F. Faivre, N. Bernard, K. Le Calve, N. Couvreur, S. Klein</i>	485
16:45	Validation of an AI-Based Method for Corneal Endothelial Cell Viability Assessment in an ex vivo Porcine Model <i>G. Salvi, O. Balbi, M. Penati, L. G. De Matos, A. Zurlo, Y. Dadi, R. I. Lazari, C. Giudice, P. Riccaboni, F. Cecilian, G. Servalli, F. Gritti, C. Gagliano, L. Ressel, C. Lecchi</i>	486
17:00	Left-side dominance in laying hens: an investigation of chick lateralization following a 10-week exercise regime <i>R. Garant, B. Tobalske, N. Van Staaveren, D. Powers, T. Widowski, B. Willie, A. Harlander</i>	487
17:15	Implementation of flight-maneuver training in commercial rearing: No extra energy costs <i>T. Burwell, D. Powers, R. Garant, B. Willie, B. Tobalske, A. Harlander</i>	488
17:30	Isolation of bovine mesenchymal stroma cells from hair follicles as an in vitro model for studies on bovine digital dermatitis <i>S. Suske, F. Jordan, A. Hornung, F. Rosner, B. Brenig, H. H. Swalve, D. Oelschlägel</i>	489
17:45	In vitro digestion in swine: how close is it to in vivo digestion? – A Systematic Review <i>M. Pereira, M. Catoia, M. Blanc, I. Bez, L. Costa</i>	490
18:00	End of session	
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22.1	Development of Ovine Hepatic Organoids: A Powerful In Vitro Platform to Reduce the Number of Experimental Animals Used in Metabolism and Nutrition Assays <i>S. Andrés, M. C. González-Montero, M. Criado, M. Alonso, N. Santos, D. Gutiérrez-Expósito, F. J. Giráldez, R. Balaña-Fouce, C. García-Estrada</i>	491

22.2	Dynamics of Glutathione Redox Status in Poultry: Impact of Age and Handling Stress	492
	<i>I. Nisamedtinov, K. Hälvin, Y. Le Treut, E. Chevaux, L. Vigier, A. Sacy</i>	
22.3	Ex vivo cultivation of primary bovine and porcine fat cells to optimize and refine animal tests	493
	<i>Z. Deng, E. Albrecht, H. Gu, C. Xiao, S. Maak</i>	

Session 23. Modern approaches in equine breeding: quantitative genetics and selection

Room: Room Y5
Commission(s): Horse
Chair(s): Tan, Mantovani
Session Type: Theme session

	Theatre Session 23	Book of Abstracts page
14:15	Targeted sequencing approach for equine microsatellites (Simple Tandem Repeats, STRs) and Single Nucleotide Polymorphisms (SNPs) genotyping to enable transition from STR to SNP-based Equine parentage verification	494
	<i>L. Van De Goor, E. Francis, S. Dam, P. Chemutai, B. Kaufman</i>	
14:30	Frequencies of known genes of interest in French horses genotyped using a 60K SNP Chip	495
	<i>A. Govignon, B. Dumont Saint Priest, M. Sabbagh, S. Danvy, A. Ricard</i>	
14:45	Genetic diversity in Dutch horse studbooks based on collaborative pedigree analyses	496
	<i>H. P. Doeke, M. A. Schoon, J. G. C. Van Schipstal, M. J. Steensma, M. F. L. Derks, B. J. Ducro</i>	
15:00	Genomic inbreeding level of the Coldblooded trotter	497
	<i>P. Berglund, P. Berg, S. Eriksson</i>	
15:15	Size matters – characterisation of candidate causal variants for withers height in horses	498
	<i>P. Reich, I. Kilic, T. Y. Lin, M. Weis, J. Tetens</i>	
15:30	Inter- and intra- rater reliability of linear scoring in warmblood breeding	499
	<i>A. Weigt, A. Brockmann, J. Tetens, A. O. Schmitt</i>	
15:45	Coffee Break	
16:15	Genetics of racing performance across different track conditions in Thoroughbred horses in France	500
	<i>S. Harari, A. Théry, G. Fortier, A. Ricard</i>	
16:30	Revising selection criteria for endurance performance in Spanish Horses	501
	<i>I. Cervantes, K. D. Arias, N. Formoso-Rafferty, M. Arcos, D. I. Perdomo-González, J. P. Gutiérrez</i>	
16:45	Early genomic selection for fertility in Pura Raza Española horses using array equigene	502
	<i>H. Srihi, M. Valera, C. Ziadi, N. Laseca, A. Rodríguez Sainz De Los Terreros, P. Azor, I. González, A. Gil-Gálvez, D. Perdomo-González, J. Poyato-Bonilla, A. Encina, S. Demyda-Peyrás, A. Molina</i>	
17:00	Genomic breeding values for sport performance in German riding horses	503
	<i>M. Wobbe, H. Alkhoder, K. F. Stock</i>	
17:15	Discipline specialization and its impact on genetic trends followed by genomic breeding values for conformation, gaits and jumping in sport horses in Germany	504
	<i>K. F. Stock, M. Wobbe, C. Schmidtman</i>	
17:30	End of session	

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23.1	Parentage Verification in Pura Raza Española Horses: Transition from Microsatellites to SNP-Based Genotyping Using the EQUIGENE 90K Array	505
	<i>H. Srihi, M. Valera, N. Laseca, A. Rodríguez Sainz De Los Terreros, P. Azor, I. González, A. Gil-Gálvez, J. Poyato-Bonilla, A. Encina, S. Demyda-Peyrás, A. Molina</i>	
23.2	Population structure and inbreeding in the Old Kladruber horse	506
	<i>B. Hofmanova, H. Vostra Vydrova, L. Vostry</i>	

Session 24. Physiological Disturbances on Livestock due to Microplastics and Other Pollutants

Room: Room Y6
Commission(s): Physiology
Chair(s): Tretola, Montanholi
Session Type: Theme session

	Theatre Session 24	Book of Abstracts page
14:15	<i>Invited</i> Interactions between microplastics and the gastrointestinal ecosystem of livestock: integrating experimental evidence and emerging concepts	507
	<i>D. Brugger, J. Eichinger</i>	
14:45	<i>Invited</i> Interaction of polyethylene terephthalate microplastics within the rumen environment	508
	<i>S. Tassone, V. Balestra, S. Barbera, R. Issaoui, H. Kaihara, A. Zanola, K. Abid</i>	
15:00	Growth, jejunal integrity, and physiology of pigs are maintained with diets containing microplastics	509
	<i>P. Lin, L. Pinotti, G. Bee, M. Tretola</i>	
15:15	Analysis of microplastics in black soldier fly larvae exposed to packaging materials	510
	<i>L. Tromp, B. Hedemann, N. Dam, N. Meijer</i>	
15:30	Transcriptomic profiling of aflatoxin B1 exposed and medicinal herb supplemented pig liver	511
	<i>A. A. Nalpadan, H. Reyer, M. Oster, N. Trakooljul, S. Ponsuksili, W. Kozera, K. Karpiesiuk, M. Pierzchała, A. Lepczyński, B. Ślaska, C. S. Pareek, K. Wimmers</i>	
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16:15	<i>Invited</i> Microplastics in animal-based food products: occurrence, contamination pathways, and analytical challenges	512
	<i>E. Visentin, G. Niero, M. De Marchi</i>	
16:45	LC–MS/MS determination of pesticide and antibiotic residues in milk: effects of thermal processing and composition	513
	<i>M. F. Puigvert, L. Grille, M. Irazoqui, T. López-Pedemonte, S. Jorcín, L. Pareja</i>	
17:00	Replacement of hexane-defatted oilseed meals with 2-methyloxolane-defatted oilseed meals in dairy cows’ diet: Effects on dairy performance and nitrogen utilisation	514
	<i>V. Menoury, A. Ferlay, D. Andueza, G. Cantalapiedra-Hijar, J. Engel, E. Jorge-Smeding, S. Lemosquet, P. Nozière</i>	
17:15	Voluntary feed intake, body composition and metabolic status differed between growing beef cattle fed hexane vs bio-based solvent-extracted soybean meal in a 7-months feeding trial	515
	<i>E. Jorge-Smeding, C. Garcia-Vazquez, V. Menoury, A. Ferlay, L. Salis, M. Gauthier, P. Faure, P. Nozière, G. Cantalapiedra-Hijar</i>	
17:30	Determining the impact of anaerobic digestion on the host-range and potential mobility of antimicrobial resistance genes in dairy manure	516
	<i>N. Rahman, A. Z. Rahman, N. Cicek, T. A. Mcallister, H. Derakhshani</i>	
17:45	End of session	

Session 25. Digital Innovations for Welfare and health focused Livestock Management - Part 2

Room: Room Y7
Commission(s): Precision Livestock Farming, Health and Welfare
Chair(s): Díaz de Otálora, Foris, Gautier, da Silva
Session Type: Theme session

	Theatre Session 25	Book of Abstracts page
14:15	Utilizing the shape of the heart to decrease mortality in pig breeding.	517
	<i>Ø. Nordbø, T. Ermens, E. Grindflek</i>	
14:30	Milking-time indicators link vacuum dynamics, milk flow, and milk quality in Holstein herds	518
	<i>M. Santinello, L. Pascarella, R. Matera, P. Federica, S. Biffani, G. Neglia, R. Negrini</i>	
14:45	A machine learning framework for early and dynamic prediction of milk, fat, and protein yield of dairy cows	519
	<i>M. Hagens, I. Adriaens, W. Garcia Herrera, A. Marubayashi Hidalgo, M. Sol</i>	
15:00	Use of Thermography for Monitoring Udder Health Status in Dairy Cows	520
	<i>P. Baronchelli, G. Gislón, M. Zucali, L. Bava, N. Palladini, S. Bonizzi, M. Pavolini, S. Sari, A. Tamburini, M. Battelli, A. Sandrucci</i>	

15:15	Methods to describe the behavioural resilience of cows after a systemic inflammatory challenge <i>S. Prins, M. Taghipoor, I. Veissier, F. Blanc, A. De Boyer Des Roches, L. Aube, D. Ledoux</i>	521
15:30	Inferring transmission routes of Staphylococcus aureus using high-resolution contact data in dairy cattle <i>H. Marina, J. Sanchez, S. Woudstra, I. Hansson, L. Rönnegård</i>	522
15:45	Coffee Break	
16:15	Responses of dairy cow to common stressors: effects on milk production and feeding behaviour traits <i>M. Braidot, A. Cabbia, E. Florit, M. Corazzin, A. Romanzin</i>	523
16:30	Innovative functional modelling framework reveals black globe temperature as the most robust predictor of circadian heat related behavior in grazing dairy cows <i>S. Czaplicki, H. Soyeurt, I. Dufrasne</i>	524
16:45	Impact of Weaning and THI on Dairy Calf Behavior <i>M. Saladini Vieira Salles, M. Benetti Figueiredo, L. Schneider Gheller, M. Martison Martins</i>	525
17:00	Quantification of resilience indicators in broiler chickens through the analysis of growth and feed intake dynamics <i>Y. Guyot, I. Kyriazakis, M. Taghipoor, V. Jonchère, E. Pampouille, C. Souchet, A. Narcy, B. Méda</i>	526
17:15	Using ultra-wideband tracking technology to monitor activity and area use in broiler breeders <i>M. Van Der Sluis, R. Van Emous</i>	527
17:30	Correspondence-Based Explainable Deep Learning for Automated Recognition of Pre-Competition Stress in Horses <i>M. Feighelstein#, L. Teschke#, Y. Solomon, T. Ben Harush, C. Ricci-Bonot, M. Baumgartner, A. Zamansky</i>	528
17:45	Fear reactions in cattle, sheep, and horses to potential predator-detering stimuli: Does a predator stimulus induce fear-enhanced startle in livestock? <i>U. König Von Borstel, C. Schnepf, C. Ehry, A. Lauth, K. Trinkaus, S. Lojewski, K. Gondolf</i>	529
18:00	End of session	

Session 26.

Management practices for sustainable poultry (and livestock) systems: welfare, biodiversity, and life cycle perspectives

Room: Room Y10
Commission(s): Poultry, Pig, Health and Welfare
Chair(s): Schiavone, Méda, Trocino
Session Type: Theme session

Theatre Session 26		Book of Abstracts page
14:15	<i>Invited</i> How can we effectively improve the welfare of broiler chickens in commercial production systems? A review of farming practices and their relationship with broiler welfare <i>I. De Jong</i>	530
14:45	Early-life characterisation of temperaments in pullets in relation to subsequent severe feather pecking behaviour <i>A. Kleiber, C. Boulange, J. P. Moysan, L. Dumontier, L. Calandreau, V. Hugo Bessa Ferreira, A. Foreau, M. Quentin, V. Guesdon, M. Sourdioux, M. Guinebretière</i>	531
15:00	Effects of drinking water optimization on immune, physiological welfare parameters, egg quality, and productivity in laying hens <i>Y. Wein, M. Subhi, S. Rubin, S. Mabjeesh, I. Yoselevitz, K. Shmuel, A. Friedman</i>	532
15:15	Enhancing laying hen welfare and thermal comfort in cage-free systems using cooled perches. <i>M. Ross, J. D. Mwifunyi, A. Haron, D. Bachrach, S. Druyan</i>	533
15:30	Welfare indicators during the early rearing period – Comparing young birds of dual-purpose and layer hybrid genotypes under organic conditions <i>H. Pluschke, D. Werner</i>	534
15:45	Coffee break	
16:15	<i>Invited</i> Precision farming practices for sustainable poultry production in the USA <i>L. Chai</i>	535

16:45	A novel method to evaluate the social impact of livestock systems: a social life cycle assessment of the impacts of the Irish pig value chain <i>C. Wangui, G. Carroll, I. Kyriazakis</i>	536
17:00	Impact of animal welfare on milk production and economic performance in dairy farm <i>M. Alrhoun, T. Zanon, M. Gauly</i>	537
17:15	From live animal export to meat and carcass trade: economic, sustainability, and welfare perspective <i>E. Massalin, S. Blattner, B. Guesmi</i>	538
17:30	Assessment of carcass and meat quality of crossbreeds of local breeds and commercial lines under organic feeding regime containing alfalfa <i>W. L. Oo, Z. Bodor, M. Krieger, D. Mörlein</i>	539
17:45	The effect of broiler production system on carcass quality <i>R. Van Emous</i>	540
18:00	End of session	

Poster Session 26		Book of Abstracts page
26.1	Genetic characterization of Extremeña Azul, an endangered native Spanish chicken breed, using 30 microsatellites markers <i>M. R. Maya, L. Borreguero, Á. Trigo, I. Bonet, J. L. Gala Bayón, P. Valera, J. A. Bouzada</i>	541
26.2	Assessing the feasibility of physical enrichments for guinea fowl (Numida meleagris): A combined behavioural and economic analysis <i>V. Caprarulo, T. Bernardo, S. Gabriele, G. Traversi, S. Carè, V. Lorenzi, L. J. Vinco, L. Bertocchi, F. Fusi</i>	542
26.3	Feather pecking in laying hens: redirected foraging meets a neuroimmune–microbiome gut–brain feedback loop <i>A. Harlander, A. L. Nicklas, N. Van Staaveren</i>	543
26.4	Keel bone damage of local German chicken breeds and their crosses with high performing laying hens <i>N. Götzke, A. Weigend, C. Reimer, J. Geibel, A. R. Sharifi, S. Weigend</i>	544
26.5	From performance to footprint: Zootechnical and environmental effects of a protected sodium butyrate supplement in broiler production <i>B. Saldaña, P. Higuera, C. Landry, M. Panheleux</i>	545
26.6	An innovative plant-based solution that helps prevent the negative effect of coccidiosis <i>A. Juanchich, J. Dechaume, A. Dupuis, J. Le Douce, M. Brunon, M. Gohin, E. Coudert</i>	546
26.7	Effects of slow-releasing calcium supplementation on growth performance, production performance, egg quality, nutrient digestibility, and blood profile in old laying hens fed a corn–soybean meal diet <i>J. H. Kim, K. Lee, A. Settuba, K. Han, I. H. Kim</i>	547
26.8	Integrating life cycle assessment into broiler feed formulation: balancing environmental gains, performance, and welfare <i>J. Lucas, A. Thomas, B. Ruel, E. Barbier</i>	548
26.9	Towards sustainable pig farming in Sardinia: environmental impact and mitigation strategies <i>M. F. Lunesu, F. Correddu, S. Sechi, S. Carta, S. P. G. Rassu, A. Nudda, G. Pulina, G. Battacone</i>	549
26.10	Same name, same effect? Comparative in vitro repellent activity of Cymbopogon sp. essential oils in blends against poultry red mite <i>C. Maltret, S. Cisse, M. E. A. Benarbia</i>	550
26.11	Performance stability of local and crossbred chickens under Ascaridia galli infection <i>A. C. Mott, S. Möller, L. Schwarz, B. Sohnrey, C. Blaschka, E. Zergani, D. Mörlein, S. Weigend, I. Tiemann, J. Tetens</i>	551
26.12	Dynamic changes in plasma triiodothyronine concentrations before and after introduction of newly hatched chicks <i>C. Murai, T. Kuwayama</i>	552
26.13	Investigations into the farrowing process of organic sows in free farrowing systems <i>K. Schlegel, A. S. Schintag</i>	553
26.14	Quality parameters of eggs from conventional and organic hens in mobile housing systems <i>K. Schlegel, J. Mühle</i>	554
26.15	Influence of a consistent arginine supply in turkey starter diets with varying protein contents <i>D. Siebert, C. Scharch</i>	555
26.16	Impact of particle size and homogenisation on water populations measured by LF-NMR in poultry meat and its impact on water-to-protein ratio <i>M. Balasubramani, E. Silletti, C. Alvarez Garcia</i>	556
26.17	Influence of mash feed particle size selection on feed intake patterns and performance in laying hens <i>E. Chevaux, C. Villot, A. Sacy</i>	557

26.18	Possible association between live weights and plumage or skin damages in laying hens <i>N. Volkmann, A. Riedel, N. Kemper, B. Spindler</i>	558
26.19	Helminth infections in free-range laying hen flocks in Lower Saxony: status-quo, reduction strategies and evaluation of appropriate diagnostic methods <i>J. Weidemann, M. Eilers, D. Jacobs, N. Kemper, J. Schulz, B. Spindler</i>	559
26.20	Comparative evaluation of housing systems on immunological, physiological, and productive performance in laying hens <i>Y. Wein, M. Subhi, S. Rubin, S. Mabjeesh, I. Yoselevitz, K. Shmuel, A. Friedman</i>	560
26.21	Stopping detoeing in broiler breeder males is possible <i>R. Van Emous</i>	561
26.22	Breeder farm environment and age as primary drivers of offspring performance and gut microbial succession in broiler chickens <i>G. M. Pangga, A. Richmond, S. Bamford, G. Koulianos, N. Corcionivoschi, A. Psifidi, D. Xia, U. Z. Ijaz, O. Gundogdu</i>	562

Tuesday 8 September

Plenary session

Session 27.

Room: Room Z
Chair(s): Bérard
Session Type: Plenary session

Theatre Session 27		Book of Abstracts page
8:30	Livestock Farming and Research in Germany <i>C. Lambertz, N. Kemper</i>	
9:00	<i>Invited</i> Feeding the future: Global challenges, risks, policy solutions and the role of livestock production <i>N. El Benni</i>	563
9:30	<i>Invited</i> Navigating the perfect storm: Between Green Deal ambitions, CAP reform, and market realities <i>A. Matthews</i>	564
10:00	Coffe Break	
10:30	<i>Invited</i> Unpacking the promises of technology in farming: The economic challenge <i>H. Hogeveen, M. Van Der Voort</i>	565
11:00	<i>Invited</i> Beyond pure productivity: The strategic role of genetics, resilience, and health for business continuity <i>W. Rauw</i>	566
11:30	Discussion	
12:00	<i>Invited</i> The other side of a Curriculum Vitae: A case study in animal science <i>G. Bee</i>	567
12:30	End of session	

Session 28. **FABRE-TP Economics of genomic improvement, and its contribution to improve animal productivity while reducing environmental impact**

Room: Room Z
Commission(s): Genetics
Chair(s): Cartick
Session Type: Theme session

Theatre Session 28		Book of Abstracts page
14:15	Economics of Genomic Improvement: How to Enhance Productivity While Reducing Environmental Impact <i>G. Cartick, L. Fontanesi</i>	568
14:30	What kind of breeding for a sustainable livestock production worldwide? global priorities, constraints, and pathways forward <i>G. Leroy, P. Ajayi, A. Uwizeye, N. Rakotovao, P. Boettcher</i>	569
15:00	Challenges in breeding for reduced environmental impact and other eco-system services <i>P. Berg</i>	570

15:15	Unlocking genetic progress: importance of data-driven selection to enhance productivity, economy and environmental impact <i>L. P. Sørensen</i>	571
15:45	Coffee Break	
16:15	Balancing profit, greenhouse gas emissions and resilience in dairy cattle breeding using integrated modelling approaches <i>R. Shi</i>	572
16:30	Investments in modern genomics and digital phenotyping to improve the economics of livestock production systems <i>D. Bickhart, N. Duijvesteijn</i>	573
17:00	European integration of phenotyping, genomic and data research facilities to foster sustainable animal production and aquaculture <i>E. Labussiere, R. Baumont</i>	574
17:15	Roundtable Discussion	
18:00	End of session	

Session 29.

Multi-omics data integration in animal breeding

Room: Room X6
Commission(s): Genetics
Chair(s): Pocrnic, Bickhart
Session Type: Industry session

Theatre Session 29		Book of Abstracts page
14:15	Image-derived latent features as digital biomarkers for large-scale genetic evaluation <i>M. Billah, M. Bermann, C. Y. Chen, E. Psota, B. Valente, J. Holl, I. Misztal, D. Lourenco</i>	575
14:30	Extending Single-Step Genomic Evaluations to Phenomics and Intermediate Omics: A Conceptual and Methodological Perspective <i>N. Gengler, A. Genin, A. Markey</i>	576
14:45	Metabolic signatures after genetic selection of litter size homogeneity and resilience in a maternal rabbit line <i>C. Chandrababu Shailaja, M. J. Argente, M. L. García-Pardo, P. Hernández, M. Martínez-Álvaro</i>	577
15:00	Resolution matters: 16S rRNA and Shotgun Metagenomics in estimating microbiome-mediated genetic variance in Iberian pigs <i>L. Azougagh, C. Casto-Rebollo, L. Varona, J. Casellas, S. Negro, N. Ibañez-Escriche</i>	578
15:15	Does the inclusion of microbiome data enhance genetic evaluations? Evidence from GBLUP and GO-BLUP comparisons in beef cattle <i>S. N. Saez-Torillo, T. Q. Nguyen, J. Lima, M. A. Cleveland, R. Roehe, M. Martínez-Álvaro</i>	579
15:30	Evaluating the Contribution of Microbiome Information to Genomic Prediction for Growth, Feed Intake, and Carcass Traits in Angus Cattle <i>R. Magalhaes Da Costa, F. Bussiman, A. Garcia, K. Retallick, D. Lourenco, J. Lourenco</i>	580
15:45	Coffee Break	
16:15	Integrating functional SNVs with mRNA isoform expression in A1A1 and A2A2 Holstein dairy cows <i>L. Jiménez Montenegro, O. Urrutia Vera, Á. Cánovas</i>	581
16:30	Effectiveness of DNA Sequencing and Biochemical Methods in Characterizing Bovine Milk Protein Variants <i>Y. Liu, E. Bijl, J. Gao, R. Gonzalez-Prendes, M. A. Groenen, J. Kantanen, C. Jinja, N. Ghanem, D. Kugonza, M. Makgahlela, H. Bovenhuis, R. P. M. A. Crooijmans</i>	582
16:45	Multi-evidence driven triage of candidate genes for feather pecking behaviour in chickens <i>C. Falker-Gieske, J. Bennewitz, J. Tetens</i>	583
17:00	Utilising genotype and transcriptome information for feather pecking analysis in laying hens <i>U. S. T. Yarra, V. Haas, J. Bennewitz, J. Tetens</i>	584
17:15	From genotype to phenotype: mapping shared regulatory architecture of cattle metabolome and transcriptome <i>P. K. Chitneedi, G. C. M. Moreira, C. Li, D. Fischer, C. Charlier, G. Plastow, J. Vilkki, R. Weikard, C. Kühn</i>	585

17:30	Comparative profiling of the bovine plasma proteome using Olink proximity extension assay and LC-MS/MS before and after calving	586
	<i>M. Bhati, E. Paxton, L. Morrison, A. Tenesa</i>	
17:45	Genetic Score Omics Regression to Map Genes Underlying Stillbirth and Gestation Length	587
	<i>M. Zölch, A. M. Križanac, C. Schmidtmann, H. Alkhoder, J. Tetens, J. Bennewitz, M. E. Goddard, R. Xiang</i>	
18:00	End of session	
Poster Session 29		Book of Abstracts page
29.1	Transcriptomic signatures associated with intramuscular fat deposition in the Black Slavonian pig	588
	<i>B. Lukic, G. Lipavic, M. Bulaic, I. Curik, Z. Radisic, R. Luzaic, N. Raguz</i>	

Session 30. Beef on Dairy (II): Management concepts, mating strategies and technologies for sustainable dairy and beef production

Room: Room X7-9
Commission(s): Cattle
Chair(s): Meier, Dohme-Meier
Session Type: Theme session

Theatre Session 30		Book of Abstracts page
14:15	<i>Invited</i> Genetic and genomic strategies for advancing sustainable beef-on-dairy systems	589
	<i>D. Lourenco, M. Bermann, A. Cesarani, I. Misztal</i>	
14:45	<i>Invited</i> Balancing profit and calving performance: New breeding values for Beef-on-Dairy sires	590
	<i>C. Schmidtmann, A. Rolfes, M. Wobbe, L. Polman, D. Adekale</i>	
15:15	Early lactation prediction of extended lactation milk yield class using random forest models in pasture-based dairy systems	591
	<i>S. L. Bird, N. Lopez-Villalobos, C. J. Andrews, S. J. Hendriks, J. P. Edwards</i>	
15:30	Comparative Machine Learning for predicting late-lactation productivity in dairy cows.	592
	<i>Y. Aarts, E. Burgers, E. Saccenti, R. Torres, R. Goselink, A. Van Knegsel</i>	
15:45	Coffee Break	
16:15	<i>Invited</i> Impact of the use of Beef-on-Dairy on milk yield, calving traits and culling risk of the cow in subsequent lactation	593
	<i>L. Völker, C. Schmidtmann, L. Hüneke, G. Thaller</i>	
16:45	Splitting the bill at the gate: Pricing system to reward management and genetic potential of Beef on Dairy calves	594
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17:00	HerdPlanner: Decision models for reproduction and culling decisions	595
	<i>E. Harms, R. Kool, M. Hagens, I. Adriaens, M. Sol</i>	
17:15	Fattening and slaughter performance of crossbred, German Holstein and Simmental bulls fed with sweet white lupine as protein source	596
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17:30	Post-weaning feed management of Holstein and beef x Holstein cattle: Effects on growth performance and carcass merit	597
	<i>E. E. Cornand, S. A. Terry, G. O. Ribeiro, M. D. Jelinski, Ó. López-Campos, G. B. Penner</i>	
17:45	Effect of the inclusion of cocoa bean shells in the diet of fattening beef on live performance, carcass traits, and nutritional quality of the meat	598
	<i>A. Nudda, S. Carta, M. F. Lunesu, G. Battacone, S. P. G. Rassu, F. Correddu, G. Pulina</i>	
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30.1	An integer programming approach to optimal selection and mating for herd improvement	599
	<i>I. Lagarde, E. Harms, M. Sol</i>	

Session 31. When genetic potential meets production reality: implications for the animal

Room: Room X4-5
Commission(s): Physiology, Health and Welfare, Cattle
Chair(s): Boyle, Huber, Baes, Sauerwein
Session Type: Challenge session

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14:15	<i>Invited</i> Characterizing the complex genetic architecture of SINS reveals associations with physiological side effects of selection in swine	600
	<i>G. Reiner, K. Gerhards, M. Lechner, K. Koenders-Van Gog, S. Becker</i>	
14:30	Genetics of swine inflammation and necrosis syndrome: What do we know so far?	601
	<i>N. G. Leite, A. O. Garcia, R. Vogelzang, L. Vargovic, S. Nuphaus, Ø. Nordbø, M. Londoño-Gil, J. Dunkelberger, E. Grindflek</i>	
14:45	Ear necrosis: Evidence of pigs reaching their biological limits?	602
	<i>L. Markland, F. Leonard, K. O'Driscoll, L. Boyle</i>	
15:00	<i>Invited</i> Pathological investigation of cardiovascular disease in broilers	603
	<i>I. Thøfner, T. A. S. Al-Saedi, S. S. Nielsen, S. Kabell, J. P. Christensen</i>	
15:15	From behavior to immunity: Sex-related differences in immune cell composition in chicken lines selected for high and low feather pecking	604
	<i>T. Hofmann, W. Bessei, V. Stefanski, S. Schmucker</i>	
15:30	Investigating differential gene expression in the pectoral muscles of broiler chickens affected by wooden breast condition	605
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15:45	Coffee Break	
16:15	<i>Invited</i> Mapping production independent mastitis risk in German Holsteins using GWAS SEM	606
	<i>L. A. Gutekunst, V. P. Haas, C. Schmidtmann, J. Tetens, G. Thaller, J. Bennewitz</i>	
16:30	From genetic potential to robustness: insights from energy-allocation models	607
	<i>F. Douhard, J. Raoul</i>	
16:45	<i>Invited</i> From genotype to phenotype: expectations and limitations	608
	<i>K. Huber</i>	
17:00	<i>Invited</i> Balanced breeding goals: genetics as part of the solution to livestock welfare and sustainability challenges	609
	<i>C. Baes, A. Harlander, S. Barbut, B. Wood, F. Miglior</i>	
17:15	<i>Invited</i> Why laying hens struggle with vertical space: biomechanical constraints and implications for aviary design	610
	<i>A. Harlander, B. Tobalske, R. Garant, J. Page, N. Van Staaveren</i>	
17:30	When genetic potential meets production reality: implications for the animal. Discussion and summary of the session	611
	<i>K. Huber, H. Sauerwein, L. Boyle, C. Baes</i>	
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31.1	Rumen-protected B vitamins improved growth potential of female dairy calves after weaning	612
	<i>R. Roszkos, U. Blaaser, D. Bouchut</i>	
31.2	Genetic Variant Mapping Across Multi-Tissue Transcriptomes Reveals Genome-wide Regulatory Signatures in Bovine IVP and MOET Calves	613
	<i>U. Gk, P. P. Pathade, J. Bojsen-Møller Secher, H. Kadarmideen</i>	
31.3	Milk yield dynamics reflect health of dairy cows in early lactation	614
	<i>B. De Bruijn, I. Van Dixhoorn, B. Kemp, A. Van Knegsel</i>	
31.4	Liver hemorrhages and keel bone fractures in experimental cohorts of two high-performing laying hen strains from week 30 to week 42 of age	615
	<i>L. Ruda, L. Messmer, V. Sommerfeld, M. Rodehutschord, K. Huber</i>	
31.5	Different motility of frozen semen between Holstein and Jersey bulls under heat stressed condition	616
	<i>S. W. Kim, J. Lee, G. Ryu, H. Baek</i>	

31.6	Phenotypic characterization of milk-derived liver enzymes and their associations with production traits in Holstein cows	617
<i>I. Drzaic, V. Brajkovic, N. Raguz, M. Oroz, M. Oroz, M. Shihabi, M. Didara, I. Curik, B. Lukic</i>		

Session 32.

Feeding strategies to optimise welfare

Room: Room X2-3
Commission(s): Nutrition, Health and Welfare
Chair(s): Stergiadis, Franchi
Session Type: Theme session

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14:15	The effect of half dose of colostrum replacer on immunity, feed intake, nutrient digestibility, and performance of dairy calves <i>M. Ravanetti, A. Collura, G. Bonacini, C. Balbo, G. Esposito</i>	618
14:30	Association between passive immunity status on disease incidence and therapeutic interventions in dairy calves <i>J. V. Santos E Silva Mesquita, J. B. Daniel, J. Echeverry-Múnera, K. Iakhiaeva, D. R. Martinez Mayorga, J. Martín-Tereso, J. N. Wilms</i>	619
14:45	Effect of incorporation a spray-dried fat concentrate containing tributyrin and tricaproin into milk replacer on the need for medical interventions in newborn calves. <i>K. Iakhiaeva, J. Echeverry-Múnera, J. B. Daniel, J. Martín-Tereso, J. Steinhoff-Wagner, M. Janssen, J. N. Wilms</i>	620
15:00	Digestive development and behavior in calves weaned on hay or concentrate diets <i>X. Zhao, M. Jamrogiewicz, M. Przybyło, J. Flaga, J. Kański, D. Wojtysiak, R. Miltko, S. Ortmann, M. Niu, P. Górka, M. Clauss</i>	621
15:15	Effects of calf dry TMR and warm-air-dried hay as sole solid feed on growth and behavior of pre-weaned calves <i>J. J. Hayer, F. Leixner, G. Hellmann, T. Scheu, C. Koch, G. Dusel, J. Stracke</i>	622
15:30	Factors influencing voluntary free water intake of Holstein calves with high milk replacer allowance and slow, late weaning <i>C. S. Ostendorf, J. Steinhoff-Wagner, K. J. Hemmert, F. Leixner, C. Koch, M. H. Ghafarri</i>	623
15:45	Coffee Break	
16:15	Motivation of dairy cows to access food diversity in an operant conditioning task <i>L. Herve, R. Delagarde, A. Favreau-Peigné, C. Ginane</i>	624
16:30	Enhancing mineral bioavailability, stress resilience and welfare using magnesium phosphate: evidence from in vitro models and swine in vivo trials <i>B. Ribeiro, A. Lecointe, E. Dupuis, M. Brunon, J. Le Douce, E. Pagot, E. Coudert, A. Juanchich</i>	625
16:45	Influence of dietary tryptophan-to-lysine ratio and level of large neutral amino acids on performance, lesion scores and behaviours of weaned piglets <i>J. Glinubon, J. E. Bolhuis, A. J. M. Jansman, N. Kelderman, E. Bruininx, W. J. J. Gerrits</i>	626
17:00	Comparison of two commercial 6-phytases on growth performance in a dose response trial with weaned Piglets <i>R. Khurana, X. Guan, V. Lagos, M. Schmidt, R. Janßen</i>	627
17:15	Effects of Early-Lay Prebiotic Supplementation with Galacto-oligosaccharides on Severe Feather Pecking and Associated Feather Damage in Laying Hens <i>A. L. Nicklas, N. Van Staaveren, A. K. Shoveller, A. M. Edwards, P. Forsythe, A. Harlander</i>	628
17:30	Location Matters: Impact of Pecking Block Placement on Feather Condition in Laying Hens <i>E. Simmonds, A. L. Nicklas, N. Van Staaveren, T. Widowski, A. Harlander</i>	629
17:45	Impact of dietary amino acid supply on milk urea and urine nitrogen excretion and energy corrected milk of dairy cows fed hay-based diets <i>F. Righi, R. Pitino, E. Tsiplakou, M. Simoni</i>	630
18:00	End of session	
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32.1	Whole plant vetch silage as roughage for growing pigs: Effects on growth performance, slaughter characteristics and outdoor run use <i>S. Witten, J. Wiskandt, M. T. Machner, R. Bussemas, K. Aulrich</i>	631

32.2	Betaine supplementation in adult goats exposed to heat stress conditions <i>F. J. Giráldez, A. Díaz Reyes, S. Bettini, M. Dehnavi, M. J. Ranilla, L. Abdennebi-Najar, S. Andrés</i>	632
32.3	Effects of live and inactivated yeasts on ruminal pH and redox potential (Eh) in dairy cows under high-carbohydrate challenge <i>B. Dominique, C. Alexandra, R. Robert</i>	633
32.4	Live yeast supplementation modulates recovery of rumen function and performance following subclinical ruminal acidosis in dairy cows <i>M. Terré, A. M. Hanzek, M. Gindri, E. Chevaux, C. Villot</i>	634
32.5	Synergistic Co-fermentation of Palm Kernel Cake Enhances Nutrient Digestibility and Modulates Rumen Microbiota in Beef Cattle <i>H. Mi, Z. Wang, C. Zhou, D. Xiao</i>	635
32.6	Exploratory investigation of maternal care and early postnatal calf behavior related to milk intake in a dam-bound rearing system in the first 24 hours after birth <i>J. Kurek, A. Neuser, T. Nutto, A. Kurek, J. Steinhoff-Wagner</i>	636

Session 33.

Unravelling the next generation animal nutrition: functional feed ingredients and additives - Part 1

Room: Room X11
Commission(s): Nutrition
Chair(s): Alvarez-Rodriguez, Kar, Foggi
Session Type: Theme session

	Theatre Session 33	Book of Abstracts page
14:15	The effect of 3-sialyllactose in combination with Bacteroides thetaiotaomicron isolated from Ningxiang pigs on the intestinal development of piglets <i>B. Tan, L. Zhang, J. Wang</i>	637
14:30	Investigating the optimal histidine to lysine ratio in piglets: impact on performance, blood parameters and carnosine content in the skeletal muscle <i>D. Siebert, K. Schuh-Von Graevenitz, G. Dusel</i>	638
14:45	Effects of dietary carob pulp as a source of non-starch polysaccharides on carcass traits and fatty acid composition in intensively reared Iberian crossbred pigs <i>J. Álvarez-Rodríguez, C. M. Muñoz-Sastre, J. Santana-Sánchez, M. Á. Latorre</i>	639
15:00	Integrating growth performance and tissue functional transcriptomics to elucidate the effects of a xylanase and β-glucanase combination in post-weaning pigs <i>P. Aymerich, E. Ball, L. F. Romero, D. E. Velayudhan, M. A. Ton Nu, R. Muns, Y. Dersjant-Li, E. Vinyeta</i>	640
15:15	Effects of dietary γ-aminobutyric acid supplementation on growth performance and novel object test responses in nursery piglets <i>E. Huenul, J. F. Pérez, D. Saavedra, K. Rochina, S. M. Martin-Orúe</i>	641
15:30	Magnesium-protected zinc as an alternative to zinc oxide on growth of weaned piglets <i>R. Aureli, Z. Garlatti, E. Bacou, J. Le Cour Grandmaison</i>	642
15:45	Coffee Break	
16:15	Microalgal Chlorella sorokiniana as a functional feed ingredient improves post-weaning piglet performance <i>S. K. Kar, A. Van Enckevort, E. Houtzager, S. J. Koopmans</i>	643
16:30	Tiny but mighty: small dose of standardized dry grape extract potentiates antioxidant defenses in broiler chickens <i>P. Engler, D. Bień, S. Cissé, M. E. A. Benarbia, S. Jaworski, A. Lange, P. Ciborowska, A. Zalewska, J. Urban, M. Michalczuk, A. Matuszewski</i>	644
16:45	Protective antioxidant effects of a dietary polyphenol combination in broilers under heat stress <i>J. Estévez, P. Martín-Atance, S. Haldar, A. K. Dhara, S. Sihi, S. Sawant, S. Carné</i>	645
17:00	From agricultural residue to high-value prebiotics: Upcycling sorghum lignocellulosic biomass into cello-oligosaccharides <i>N. Mahna, S. Kumar, A. K. Samanta, S. Arora</i>	646
17:15	EntoBoost: a multi-model screening platform to identify and study insect fractions with health-promoting effects in animal feeds <i>N. A. Sibinga, E. Fako, M. Kraft, J. Nerinckx, V. Vermeylen, J. De Smet, A. Declercq, N. Everaert</i>	647

17:30	Antioxidant Supplementation in Maternal Diet Modulates the Effects of Season on Swine Progeny <i>A. Magro, P. Vázquez, G. Gómez, J. García-Casco, F. Sánchez, C. López-Bote, C. Óvilo, M. Muñoz, A. Heras-Molina</i>	648
17:45	End of session	

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33.1	Immunomodulatory effects of nucleotide-based formulations enriched with seaweed and olive bioactive compounds in mammals: evidence from an LPS-induced rat model <i>S. Segarra, J. Teichenne, R. Mariné-Casadó, A. Mas-Capdevila, J. M. Alcaide-Hidalgo, A. Antolín, D. Martínez-Puig, J. Velasco-Alvarez, A. Caimari</i>	649
33.2	Anti-inflammatory effect of Cyanidin-3-O-lathyroside from <i>Eleutherococcus sessiliflorus</i> in LPS-induced in vitro model <i>A. J. E. Cabuloy, C. H. Lee, M. S. Kim, S. H. Kim</i>	650
33.3	Effects of a phytogetic blend of capsicum, clove and garlic in starter feed on the growth performance of Holstein dairy calves. <i>R. E. Crossley, S. Torrey, S. Van Kuijk</i>	651
33.4	Natural bioactives preserve gut resistome stability in broilers compared with antibiotic growth promoters <i>R. Andreaki, P. Kyriakaki, S. Koulocheri, A. Pappas, A. Mavrommatis, E. Tsiplakou</i>	652
33.5	Evaluation of thinned apple by-products in ETEC F4-challenged weaned piglets <i>M. Tretola, P. Lin, F. Bertolin, L. Pinotti, P. Silacci, N. Pradervard, G. Bee, M. Girard</i>	653
33.6	Supplementation of a porcine-derived bioactive complex in the diet reduces post-weaning diarrhea and modulates gut microbiota in ETEC-challenged piglets <i>I. Bez, M. Blanc, C. Cintra, R. Nunes, G. Stofella, S. Weber, L. Costa</i>	654
33.7	Improving Zootechnical Performance of Broilers with Polyphenol Blend <i>M. Osredkar Mergole, V. A. Rios De Castilho Heiss, S. Molino, O. Desrues, E. Santin</i>	655

Session 34. Precision livestock feeding: Innovations and technologies optimizing animal welfare, productive performance and feed utilization

Room: Room Y8-9
Commission(s): Precision Livestock Farming, Nutrition
Chair(s): Montanholi, Casasús
Session Type: Theme session

Theatre Session 34		Book of Abstracts page
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14:30	Accuracy of five dry matter intake prediction models in lactating dairy cows across energy-corrected milk yield classes: a meta-analysis <i>U. Serbest, A. G. Aydoner, P. Y. Bozkaya, Z. Cebeci</i>	657
14:45	Use of real-time forage-harvester NIRS to reduce whole-plant maize silage nutrient variability through dynamic cutting-height control <i>J. L. Monge</i>	658
15:00	Artificial intelligence applied to feed delivery in dairy farms <i>A. J. De Paula Nunes Cassimiro, E. Da Silva Ramos, C. D. De Sousa Bezerra, R. A. Pereira Franco, A. Assis Cardoso, E. Noronha De Andrade Freitas</i>	659
15:15	A pilot study integrating jaw accelerometry and surface electromyography for automated monitoring of chewing dynamics in cattle <i>R. Zsoldos, S. Meale, O. Guzhva</i>	660
15:30	Comparative assessment of 3-dimensional camera and GreenFeed systems for on-farm feed efficiency evaluation <i>A. Guinguina, J. Nousiainen, P. Huhtanen</i>	661
15:45	Coffee break	
16:15	SipControl: High-resolution pressure sensing to characterize granular sucking behavior in automated calf feeders <i>E. Johannhardt, A. Deininger, M. Gültas</i>	662

16:30	Evaluation of non-invasive sensors for monitoring vital signs in dairy cows using pulse oximetry and infrared thermometry <i>M. González-Cabrera, V. Hernández, J. Muñoz-Quirós, A. Morales-Delanuez, A. Argüello, N. Castro, L. E. Hernández-Castellano</i>	663
16:45	Use of computed tomography to predict commercial lamb cut weights <i>Y. Huo, H. Calnan, G. Gardner, F. Anderson, L. Pannier, D. Gutzke</i>	664
17:00	What does outdoor access cost? A mechanistic analysis of energy expenditure in free-range slow-growing chickens <i>G. Dukhta, Y. Guyot, S. Chaumont, S. V. Mignon, E. Pampouille, B. Méda</i>	665
17:15	Early prediction of growth dynamics and feed conversion ratio using random forest regression models in growing pigs <i>V. Ács, G. Kövér, G. Bee, V. Halas</i>	666
17:30	Opportunity for welfare breeding: An automated registration system to record foraging activity of individual pigs as an indicator trait for positive welfare <i>R. M. Zaalberg, J. Malmkvist, N. S. Madsen, M. L. V. Larsen, J. D. Bus, T. T. Chu, R. Thomsen, H. Bovbjerg, L. J. Pedersen</i>	667
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34.1	Impact of bronopol preservation on milk metabolomic stability <i>N. Frías-Reid, R. R. Lobo, G. Conta, J. L. Mejía Méndez, D. E. Navarro López</i>	668
34.2	Pilot GWAS of male reproduction traits in Slovak farmed Rainbow trout <i>R. Kasarda, N. Moravčíková, A. Halvoník, K. Pálešová, J. Andreji, M. Fik</i>	669
34.3	Modelling post-farrowing body weight in sows from gestation and litter data <i>N. Quiniou, J. Thomas, A. Letort</i>	670
34.4	Analysis of fecal particle distribution in dairy cows with different assessment approaches <i>H. Scholz, L. Hentschel, P. Kühne</i>	671
34.5	Methane Yield Integrated into Feeding Strategies as a Measure of Production Efficiency in Tropical Commercial Dairies: Case Study in Tamil Nadu, India <i>K. M. Tirimba, T. Ravichandran, M. G. G. Chagunda</i>	672
34.6	"Collar-Tag": A Novel, Rapid, and Secure Electronic Identification Method for Lambs <i>F. Chessa, N. Lei, L. Mara, G. Epifani, M. Dattena, V. Giovanetti, N. Charbel</i>	673

Session 35. Early career competition (pigs& poultry)

Room: Room Y4
Commission(s): Pig, Poultry
Chair(s): Chalvon Demersay, Bordignon, Arnaud
Session Type: Theme session

Theatre Session 35		Book of Abstracts page
14:15	Can feed color drive feeding behavior in piglets? <i>O. Tej, J. Leskovec, M. Colom-Pellicer, C. Güell Saperas, M. Ferrando Cogollos, D. Torrallardona</i>	674
14:30	Chronic stress reshapes the pig gut microbiome: insights from metaproteomics <i>R. Río-López, J. Guitart-Matas, M. Ø. Arntzen, A. Clavell-Sansalvador, I. T. Voularki, O. González-Rodríguez, L. J. García-Gil, X. Xifró, A. Dalmau, Y. Ramayo-Caldas</i>	675
14:45	Step into the Udder Zone – Identifying behavioural proxies of fallback piglets under heavy occlusion <i>S. P. Brouwers, C. Ducrue, L. A. Boyle</i>	676
15:00	Influence of different sow and farrowing parameters on colostrum quality in a free farrowing system <i>P. T. Egli, J. Adam, C. Rüegg, G. Schüpbach-Regula, J. J. Gross, A. Grahofer</i>	677
15:15	Effect of early and late postnatal administration of two artificial colostrum formulas on piglets' growth performance, blood metabolic profile and intestinal health <i>S. Bencivenni, E. Huenul, F. Palumbo, M. Mazzoni, G. Metti, G. Rocchetti, F. Correa, D. Luise</i>	678
15:30	Modulation of Dietary Acid-Binding Capacity by Limestone Flour Omission and Fumaric Acid Supplementation in the First 14 Days Post-Weaning: Effects on Pig Performance and Health <i>J. Glynn, G. Gardiner, J. O'Doherty, T. Sweeney, P. Lawlor</i>	679
15:45	Coffee break	

16:15	Effect of dietary inclusion of a by-product of Gelidium sesquipedale on post-weaning growth and health of pigs	680
	<i>C. Negrini, J. Glynn, G. Gardiner, R. Oliver-Simancas, A. Jiménez-Quero, L. Giblin, P. Lawlor</i>	
16:30	Effects of the combination of potentiated zinc oxide and monovalent copper in low acid-binding capacity-4 diets on growth performance and plasma zinc and copper concentrations	681
	<i>J. Lee, M. Tokach, J. Derouchey, A. Monteiro, Y. Manaig, P. Trevisi</i>	
16:45	Effect of Lactiplantibacillus Plantarum on nitrogen, calcium and phosphorus balance in weaned piglets challenged with Fumonisin B1	682
	<i>L. Ikanya, B. Libisch, T. Keresztény, F. Olasz, M. Kovács, V. Halas</i>	
17:00	Evaluating social genetic models in pigs with precision feeding data and stochastic simulation	683
	<i>P. Nuñez, L. Varona, J. Casellas, N. Ibáñez Escriche</i>	
17:15	Enrichment with live insect larvae (Hermetia illucens) on productive results in slow- and fast-growing broiler chickens	684
	<i>M. Pravato, M. Cali, F. Bordignon, D. Meo Zilio, M. Molin, S. Caré, S. Bellezza Oddon, A. Trocino, G. Xiccato, D. Bochicchio</i>	
17:30	From tissue to transcriptome: Exploring differential gene expression in porcine scrotal hernia using a QuantSeq approach	685
	<i>J. De Kort, S. Van De Voorde, B. Chakkingal Bhaskaran, R. Meyermans, K. Hooyberghs, S. Janssens, N. Buys, W. Gorssen</i>	
17:45	End of session	

Session 36. From threat to response – biosecurity in times of African Swine Fever, Avian Influenza and other infectious diseases

Room: Room Y3
Commission(s): Health and Welfare, Sheep and Goat, Poultry, Pig, Cattle
Chair(s): Holinger, Goszczynski
Session Type: Industry session

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14:15	<i>Invited</i> Biosecurity in challenging times: recognizing overlooked hygiene pathways in livestock production	686
	<i>N. Kemper</i>	
14:45	Live animal transport and disease spread: the public health case for meat and carcass trade	687
	<i>E. Massalin, M. Klimczak</i>	
15:00	Toward oral African swine fever vaccines: Harmonized evaluation and strategy optimization	688
	<i>T. Holzum, V. Friedrichs, U. Blohm, M. Beer, S. Blome, A. Schäfer</i>	
15:15	Staphylococcus aureus at the Wildlife–Livestock Interface: Occurrence and Genomic Characterization in Northern German Production Systems	689
	<i>R. H. Mateus-Vargas, I. Grafelmann, K. Büter, T. Fenker, J. Tetens, J. A. Hammerl, T. Lienen</i>	
15:30	Identifying the immunocompetence markers at weaning to predict vaccine response and persistence in pigs	690
	<i>A. A. M. Sabuj, C. Denis, J. Estellé, C. Rogel-Gaillard, M. H. Pinard-Van Der Laan, F. Blanc</i>	
15:45	Coffee Break	
16:15	Semen storage at 5 °C enables omission of antibiotics in artificial insemination of pigs under field conditions	691
	<i>F. Reckinger, A. Riesenbeck, A. M. Luther, I. K. Maaßen, R. Waßmuth, D. Waberski</i>	
16:30	Exploration of somatic cell counts in sow colostrum	692
	<i>R. Muns, C. Mulvenna</i>	
16:45	Elevated blood glucose in late gestation is associated with increased mortality, particularly in gilts	693
	<i>F. R. Dunshea, R. Clarkson, K. Mcdermott, M. Magnon, S. O'Connell</i>	
17:00	Aligning veterinary recommendations, farmer adoption, and costs of preventive measures for production diseases in Danish dairy herds	694
	<i>O. U. Lønberg-Jensen, V. M. Thorup, S. Østergaard</i>	
17:15	End of session	
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	<i>R. Muns, C. Mulvenna</i>	
36.2	Assessment of the economic impact of swine influenza on Japanese swine commercial farms	696
	<i>T. Suzuki, J. Mine, K. Miyazawa, Y. Uchida, Y. Mizoguchi, Y. Sasaki</i>	

36.3	Analysis of factors associated with preweaning mortality and cause-specific mortality	697
	<i>T. Sakakura, Y. Sasaki</i>	
36.4	Tricks of the trade: understanding cattle purchasing in the context of an endemic statutory disease and associated control efforts	698
	<i>A. Ferreira, N. L. Field, U. Kenny, C. G. Mcaloon, J. F. Mee, E. J. Murray, Á. Regan, A. W. Byrne</i>	

Session 37. Omics for functional traits in horses

Room: Room Y5
Commission(s): Horse
Chair(s): Tan, Meyermans
Session Type: Theme session

Theatre Session 37		Book of Abstracts page
14:15	Genetic population structure and genomic associations with coat colour and conformation traits in the endangered Schleswig cold blood horse	699
	<i>S. C. Blomeyer, J. Stuhlträger, K. F. Stock, H. H. Swalve</i>	
14:30	Genetic investigations of the roan coat color in Icelandic horses: Population analyses and candidate variants on ECA3	700
	<i>K. Voß, I. Blaj, D. Becker, G. Thaller</i>	
14:45	Towards a comprehensive screening approach for detecting gene doping in racehorses and sport horses by targeting common and intrinsic plasmid sequences	701
	<i>A. Paz, S. Dhorne-Pollet, B. Loup, F. André, P. Garcia, L. Bailly-Chouriberry, E. Barrey</i>	
15:00	Wearable-based continuous monitoring and omics profiling of thermal and exercise resilience in Thoroughbred racehorses	702
	<i>S. Mecocci, R. Ratto, E. Porzio, M. Pepe, G. Chillemi, E. Chiaradia, F. Beccati, K. Cappelli</i>	
15:15	Mitochondrial and genomic factors in equine Recurrent Exertional Rhabdomyolysis	703
	<i>L. Pavlin, S. Dhorne-Pollet, M. Filipe-Ferreira, M. Bernard, A. Ricard, E. Barrey</i>	
15:30	Prevalence of equine missing eyes (Microphthalmia and Anophthalmia) with sex skewed inheritance and parent-of-origin effect	704
	<i>V. Asti, Å. Gelinder Viklund, S. Mikko</i>	
15:45	End of session	
Poster Session 37		Book of Abstracts page
37.1	Long-read mitochondrial DNA sequencing for genetic variability analysis in endurance horses	705
	<i>S. Dhorne-Pollet, N. Pollet, M. Filipe Ferreira, C. Robert, E. Barrey, A. Ricard</i>	
37.2	Systemic Transcriptomic Mirroring: Unveiling the Neuro-Muscular Axis and Non-Invasive Biomarkers for Elite Racing Performance in Horses	706
	<i>J. W. Park, J. M. Kim, K. S. Lim, J. E. Park, D. Shin</i>	
37.3	Circulating miRNAs and biochemical markers to evaluate heat-stress responses in Sicilian horse breeds	707
	<i>M. Carlentini, S. Tumino, A. Antoci, G. Chessari, A. Criscione, S. Bordonaro, D. Marletta</i>	

Session 38. Advances in insect breeding and genetics

Room: Room Y5
Commission(s): Insects, Genetics
Chair(s): Meyermans, Rumbos
Session Type: Theme session

Theatre Session 38		Book of Abstracts page
16:15	Selective breeding in insects - state of the art and prospects	708
	<i>H. M. Nielsen, T. Nygård Kristensen, G. Gebreyesus, H. G. Tariku, R. M. Zaalberg, L. S. Hansen</i>	
16:45	Global patterns of genomic variation in ten domesticated Black Soldier Fly (Hermetia illucens) strains	709
	<i>F. Ijdema, M. Verschaeren, L. Broeckx, L. Frooninckx, J. Bouhuijzen Wenger, J. De Smet, S. Van Miert, N. Buys, R. Meyermans</i>	

17:00	Estimating variance components and breeding values in honeybee populations via spatially aware simulation	710
	<i>N. Pustovrh, G. Gorjanc, J. Obsteter</i>	
17:15	Integrative multi-omics analysis reveals genetic variants associated with growth traits in the superworm (Zophobas atratus)	711
	<i>A. Sode, N. Jeßberger, N. T. Grabowski, C. Schwennen, M. Plötz, C. Visscher, J. Metzger</i>	
17:30	On the change of heritability and genetic correlations over time in honeybee breeding	712
	<i>A. Hoppe</i>	
17:45	Genotype × Environment and the gut microbiome shape Hermetia illucens performance: insights from 14 Lines across three diets	713
	<i>F. Ijdema, M. Verschaeren, L. Broeckx, L. Frooninckx, S. Van Miert, N. Buys, R. Meyermans, J. De Smet</i>	
18:00	End of session	

Poster Session 38		Book of Abstracts page
38.1	Genetic progress in honeybee population under selection depending on mating design – a simulation study	714
	<i>S. Andonov</i>	
38.2	Evidence for adaptation to divergent diets in black soldier flies using an experimental evolution set up	715
	<i>M. D. Mogensen, M. S. Christiansen, L. S. Hansen, H. M. Nielsen, R. M. Zaalberg, T. N. Kristensen</i>	
38.3	Determining the Minimal Viable Population Size of the Black Soldier Fly (Hermetia illucens) over Ten Generations of Inbreeding	716
	<i>M. Verschaeren, L. Frooninckx, L. Broeckx, R. Meyermans, F. Ijdema, N. Buys, J. De Smet, S. Van Miert</i>	

Session 39. Enhancing circularity in sustainable livestock systems: innovations, technologies and strategies

Room: Room Y6
Commission(s): Livestock Farming System
Chair(s): Mantino, Salami
Session Type: Industry session

Theatre Session 39		Book of Abstracts page
14:15	<i>Invited</i> Circular Feed Ingredients in Livestock Systems: Opportunities and Constraints for Circular Agriculture	717
	<i>A. Khimasia</i>	
14:45	<i>Invited</i> Food loss and waste to animal feed – an imperative for a circular, sustainable, One Health food system	718
	<i>G. Shurson, Z. Dou</i>	
15:15	Qualitative and quantitative analysis of meat by-products in France to enhance circular bioeconomy	719
	<i>V. Landais, B. Duflot, T. Bonaudo, R. Baumont</i>	
15:30	Competitive resources in dairy cattle feeding: effect on yields, efficiency and emissions	720
	<i>M. Berton, L. Gallo, E. Sturaro</i>	
15:45	Coffee Break	
16:15	Closing the loop in Mediterranean lamb production: Circular economy benefits of cucumber–straw silage evaluated through in vitro, in vivo, and life cycle assessment	721
	<i>M. Hassan, A. Belanche, N. Davison, M. Romero-Huelva, L. G. Smith, D. R. Yañez-Ruiz</i>	
16:30	Advantages of an ensiled total mixed ration including sugar beet pulp for French dairy farms	722
	<i>A. Roméo, R. Delagarde, J. Duponchel</i>	
16:45	Ensiling by-products: destoned olive pomace silage as an on-farm strategy for lamb meat production to reduce food/feed competition and enhance meat quality	723
	<i>F. G. Cella, T. Malizzi, M. Finocchi, E. Senatore, A. Silvi, A. Ripamonti, A. Mantino, G. Conte, A. Serra, M. Mele</i>	
17:00	What intrinsic levers do mixed crop–livestock farmers in Guadeloupe have to improve the agroecological performance of their farms?	724
	<i>N. Mandonnet, A. Fanchone, M. Eugene, E. Laclef, C. Latchman, G. Pioche, F. Stark, B. Dumont</i>	
17:15	Energy-Plus Dairy Farming – Evaluating the Decarbonization Potential of Integrated Biogas and Photovoltaic Systems in Northern German Milk Production	725
	<i>J. Drews, J. Koerte, S. Krueger, P. Sanftleben</i>	

17:30	Effects of nitrogen fertilization, biorefinery processing and season on nitrogen fractions in grasses	726
	<i>M. Gomes, N. Hansen, M. Weisbjerg, S. Jensen</i>	
17:45	Greenhouse gas emissions of grass-based dairy systems: insights from nutrient cycle assessments of Dutch dairy farms	727
	<i>G. Bonekamp, L. De Jong, N. Van Eekeren, J. Pijlman</i>	
18:00	End of session	

Session 40. Small Ruminant Genetics, Genomics, other -Omics and Breeding Advances to improve production and sustainability

Room: Room Y7
Commission(s): Sheep and Goat, Genetics
Chair(s): Cieleń, Rahmatalla
Session Type: Theme session

Theatre Session 40		Book of Abstracts page
14:15	<i>Invited</i> It's not always as simple as it seems: lessons from genetic susceptibility to prion and lentivirus infections in sheep	728
	<i>G. Lühken, M. Serena Beato, K. Elisabetardottir, P. König, C. Fast, E. Grochowska, V. Beringue, S. Thorgeirsdottir</i>	
14:45	Dissecting the genetic architecture of somatic cell score in Cyprus Chios ewes: Heritability, genetic correlations with milk traits and GWAS analysis results using 50K SNP DNA microarray data	729
	<i>S. Panayidou, T. Christofi, G. Hadjipavlou</i>	
15:00	Genetic selection as a sustainable strategy against gastrointestinal nematodes in Flemish Texel sheep	730
	<i>A. Genin, R. Meyermans, W. Gorssen, K. Hooyberghs, E. Uchenna Nwosu, N. Buys, S. Janssens</i>	
15:15	Genetic correlations between dairy and maternal traits in the Lacaune dairy sheep breed	731
	<i>F. Tortereau, E. Langlais, C. Allain, J. Raoul</i>	
15:30	Genetic correlations between leather pinhole defect and selected traits in Lacaune dairy sheep	732
	<i>H. Largent, L. Drouilhet, F. Woloszyn, F. Plisson-Petit, S. Lucas, J. C. Duchêne, D. Allain, H. Larroque</i>	
15:45	Coffee Break	
16:15	<i>Invited</i> Genomic insights into health resilience and environmental adaptation in Portuguese and Angolan small ruminants	733
	<i>A. Amaral</i>	
16:30	From zero to hero – the spread of a new breed throughout a sheep industry using the Texel in Britain as an example	734
	<i>G. Pollott</i>	
16:45	Genomic insights into the genetic diversity of the Slovak Askanian merino sheep	735
	<i>A. Halvoník, N. Moravčíková, K. Páležová, I. Pavlík, J. Tomka, L. Vostrý, H. Vostrá-Vydrová, R. Kasarda</i>	
17:00	Genomic diversity and population structure of the endangered Thuringian goat breed	736
	<i>A. W. Omar, P. Korcuć, E. Strucken, G. B. Neumann, A. Martinez, S. Carolan, G. A. Brockmann, S. A. Rahmatalla</i>	
17:15	From pedigree to genomics, studying genetic diversity and selection signatures in the Cornigliese sheep breed	737
	<i>V. Asti, M. Ablondi, M. S. Ferrari, A. Negro, S. Grande, M. Malacarne, A. Summer, A. Sabbioni</i>	
17:30	Predicting Feed Efficiency from Multi-Omics Data in Lambs Fed Two Consecutive Diets	738
	<i>Q. Le Graverand, C. Bellanger, C. Marie-Etancelin, J. L. Weisbecker, N. Marty-Grasset, M. L. Chemit, F. Tortereau</i>	
17:45	End of session	

Poster Session 40		Book of Abstracts page
40.1	Estimation of genetic parameters for meat traits using replacement ewe lambs.	739
	<i>J. Raoul, H. Geniès, C. Burg, M. Arnal, F. Tortereau</i>	
40.2	Enhancing the sustainability of Latvian sheep breeding through genomic selection for relative growth rate and Kleiber ratio	740
	<i>N. Paramonova, M. Martins, S. Plavina, D. Malakovska, N. Krasnevskaja, J. Paramonovs, D. Kairisa, I. Trapina</i>	
40.3	Genetic determinism of leather pinhole defect in Lacaune dairy sheep	741
	<i>H. Largent, H. Larroque, M. C. Cadiergues, C. Allain, M. Lamarque, F. Woloszyn, F. Plisson-Petit, K. Feve, S. Lucas, J. C. Duchêne, D. Allain, S. Fabre, L. Drouilhet</i>	

40.4	Effect of Aloe vera Supplementation in a Tris-Based Cryoextender on the Post-Thaw Quality of Box-Frozen Goat Spermatozoa	742
	<i>A. G. Onal, Y. Z. Guzey</i>	
40.5	Genetic background of feed efficiency residual traits for sustainable breeding of sheep breeds raised in Latvia.	743
	<i>I. Trapina, M. Martins, S. Plavina, D. Malakovsa, N. Krasnevskas, J. Paramonovs, D. Kairisa, N. Paramonova</i>	
40.6	Mapping Growth and Carcass Traits in Sheep for Sustainable, Low Emission Meat Production.	744
	<i>S. R. Chacko Kaitholil, M. H. Mooney, A. Aubry, F. I. Rezwan, M. Shirali</i>	
40.7	Genome-wide signatures of selection and genomic divergence in three autochthonous sheep breeds from Epirus, Greece	745
	<i>A. Kominakis, D. Gelia, D. Pappas, M. Goliomytis</i>	
40.8	Variation in host transcriptomic responses in three SRLV-associated tissues in relation to sheep serological SRLV infection status, TMEM154 E35K polymorphism and breed	746
	<i>E. Grochowska, O. O. Adeniyi, M. Ibrahim, K. Pokrzywka, P. Guz, G. Lühken</i>	
40.9	Metabolic stress reshapes intracellular signalling in ovine hypothalamic KNDy neurons	747
	<i>D. Zięba, E. Ochoń</i>	
40.10	Association of C18 fatty acids, including the shift-t10, with the rumen microbiome in lambs	748
	<i>C. Manuel, S. Moradi, O. Guerreiro, E. Jerónimo, S. Alves, R. Bessa, D. M. Soares</i>	
40.11	Assessing the population structure in a recently established hair sheep population using pedigree data	749
	<i>A. M. Deidewig, E. Jonas, B. Hüttenmann, E. Tholen</i>	

Session 41.

Phosphorus and other critical raw materials in poultry - joint EAAP–WPSA

Room: Room Y10
Commission(s): Poultry
Chair(s): Camarinha Silva, Stadnicka, Das, Visscher
Session Type: Theme session

	Theatre Session 41	Book of Abstracts page
14:15	<i>Invited</i> Rethinking phytate utilisation in poultry: Endogenous phytate degradation and influencing factors	750
	<i>M. Rodehutsord</i>	
14:45	Dynamics of endocrine and transcriptional profiles in phosphorus and calcium metabolism at onset of egg laying	751
	<i>H. Reyer, M. Oster, N. Trakooljul, S. Ponsuksili, V. Sommerfeld, M. Rodehutsord, K. Wimmers</i>	
15:00	Strain-Specific Molecular, Immune, Physiological, and Microbiome Shifts Along the Gut–Bone–Kidney Axis Under Mineral Phosphorus Depletion in Laying Hens	752
	<i>S. Ponsuksili, H. Reyer, M. Oster, Y. A. Abitew, N. Trakooljul, F. Hadlich, S. Schmucker, V. Stefanski, Y. H. Chien, A. Camarinha-Silva, V. Sommerfeld, M. Rodehutsord, K. Wimmers</i>	
15:15	Quantitative genetic insights into calcium and phosphorus metabolism at the peak of egg laying of two commercial laying hen strains	753
	<i>M. Schmid, V. P. Haas, V. Sommerfeld, A. Camarinha-Silva, M. Feger, M. Föller, K. Huber, M. Oster, S. Ponsuksili, J. Seifert, K. Wimmers, J. Bennewitz, M. Rodehutsord</i>	
15:30	Omics-based covariance matrices in prediction models: a case study phosphorus efficiency and poultry	754
	<i>V. P. Haas, J. Bennewitz, M. P. L. Calus</i>	
15:45	Coffee Break	
16:15	<i>Invited</i> The importance of minerals and vitamins for poultry health	755
	<i>C. Visscher</i>	
16:45	Impact of feeding diets without mineral P supplement on the immune system of two laying hen strains	756
	<i>N. Wallaach, S. Schmucker, T. Hofmann, V. Sommerfeld, M. Hasselmann, K. Huber, M. Rodehutsord, V. Stefanski</i>	
17:00	Impact of myo-inositol feeding and mineral phosphorus supply on insulin signaling in liver and adipose tissue of two high-performing laying hen strains at different production stages	757
	<i>L. Ruda, Á. Szentgyörgyi, V. Sommerfeld, K. Huber, M. Rodehutsord</i>	
17:15	Risk assessment of environmental samples on the prevalence of antibiotic-resistant microorganisms in broiler fattening systems	758
	<i>T. M. Liegsalz, M. Savin-Hoffmeyer, U. Blum, C. Heinemann, J. Steinhoff-Wagner</i>	

17:30	Effect of varying dietary methionine plus cysteine concentrations on growth performance of slow-growing broiler chickens at different ages	759
	<i>P. Hofmann, A. Lemme, F. Ahrens</i>	
17:45	Random forest prediction of nitrogen utilization efficiency in broiler chickens with growth performance and dietary nutrient concentrations	760
	<i>W. Dou, T. M. Lange, W. Siegert</i>	
18:00	End of session	

	Poster Session 41	Book of Abstracts page
41.1	Metagenomic analysis reveals strain-specific ileal microbiome responses to low-phosphorus diets in laying hens	761
	<i>Y. H. Chien, T. Yergaliyev, J. Seifert, A. Camarinha-Silva</i>	
41.2	Defatted and dehydrated avocado seed meal improves feed conversion ratio in broiler chickens at 21 days of age	762
	<i>R. Vianna Nunes, T. Gabrieli, N. Rohloff Junior, T. Dos Santos Andrade, M. L. Dos Reis Maia, N. Borsatto, M. E. Gonsatti Costa Curta, E. M. Henz, G. Natha Comin, P. Cesar Pozza</i>	
41.3	Paraprobiotics and metabolic stress in peak-laying hens: implications for yolk lipid stability	763
	<i>D. Rippel, C. Nueangjamnong</i>	
41.4	Modulation of systemic metabolic phenotype and growth performance in broiler chickens following in ovo administration of myo-inositol	764
	<i>N. Shomina, V. Sommerfeld, M. Rodehutsord, K. Huber</i>	

Session 42.

Challenge session: the future of pig production research: Who needs researchers if we have AI?

Room: Room X10
Commission(s): Pig, Precision Livestock Farming
Chair(s): Aluwé, Maselyne, Trevisi
Session Type: Theme session

	Theatre Session 42	Book of Abstracts page
14:15	<i>Invited</i> How Artificial Intelligence Could Transform Pig Farming in the Next Decade	765
	<i>M. Marcon, M. Nouri</i>	
14:45	<i>Invited</i> How AI Is Reshaping the Role of the Pig Researcher	766
	<i>P. J. De Temmerman, J. Maselyne, M. Aluwé</i>	
15:15	Discussion	
15:45	End of session	

Session 43.

Bridging physiology and precision livestock farming: automated quantification of physiologic, metabolic and environmental disturbances

Room: Room X10
Commission(s): Precision Livestock Farming, Physiology
Chair(s): Sloomans, Díaz de Otálora
Session Type: Theme session

	Theatre Session 43	Book of Abstracts page
16:15	Contributions of physiological sensors and AI-assisted videos to the study of physiological and behavioural adaptive mechanisms in growing pigs facing a heat wave	767
	<i>C. Xavier, D. Renaudeau, L. Bonneau De Beaufort, C. Largouët, S. Brajon, F. Gondret</i>	
16:30	Heat stress in weaned piglets - respiratory rate in relation to animal behaviour and temperature-humidity index	768
	<i>C. Meyer, I. Traulsen, N. Kemper, P. Hesecker, A. Langehennig-Peristenidou, N. Dirksen, J. Probst</i>	

16:45	Effects of Temperature-Humidity Index on reproductive and productive performance in Spanish commercial sow farms	769
	<i>S. Sanjuán, X. Díaz De Otálora, R. Arnau, J. M. Calabuig, M. Rodríguez, E. Quintana, G. Montalvo, F. Estellés</i>	
17:00	Development of a continuous MIR-based nutritional stress score using an experimental challenge in dairy goats	770
	<i>C. Brosse, J. Pires, M. Calmels, M. Bonnet, T. Fassier, N. Friggens, R. Rupp</i>	
17:15	Physiological validation of heart rate variability as a sensor-based indicator of environmental and metabolic disturbances in grazing dairy cows	771
	<i>D. Vallejo-Timaran, P. Betancourth-Chaves, V. Castillo-Vanegas, J. Unigarro-Charfuelan, J. Lerma-Lasso, A. Zuluaga-Cabrera, J. Montoya-Zuluaga</i>	
17:30	Actionable indicators derived from milk fatty acids to assess rumen health, negative energy balance and production losses in dairy cows	772
	<i>I. Adriaens, E. Harms, J. Veneman, D. Schimmel, H. Taweel, R. Muller, M. Sol</i>	
17:45	Quantification of drinking-induced rumen temperature change in dairy cows	773
	<i>H. Muraina, P. Hinke, R. Capota, R. Rivera Chacon, B. Foris</i>	
18:00	End of session	
Poster Session 43		Book of Abstracts page
43.1	FRESHEEP&GOAT: Adapting dairy sheep and goat barns to reduce heat stress due to climate change	774
	<i>M. Lambert, P. Massabie, J. M. Gautier, N. Litalien, G. Lagriffoul, F. Pingitore, F. Guillerault, P. Merino, E. Rosa, L. Rincón, A. Elhadi, A. A. K. Salama, G. Caja</i>	
43.2	Between-cow variation of responses to a subclinical ketosis challenge in early-lactating dairy cows	775
	<i>A. M. Reiche, J. Hendricks, J. Eichinger, F. Robertini, M. Marchese, R. Siegenthaler, L. Eggerschwiler, G. Lazzari, P. Silacci, F. Dohme-Meier</i>	
43.3	Temporal dynamics of breath acetone and blood β -hydroxybutyrate in early lactation dairy cows	776
	<i>J. Hendricks, J. Ko, A. M. Reiche, R. Siegenthaler, L. Eggerschwiler, A. Güntner, F. Dohme-Meier</i>	
43.4	Variability of urinary traits in lactating Holstein cows and their associations with milk quality traits	777
	<i>S. Magro, M. Kreuzer, G. Niero, M. Penasa, E. Visentin, A. Guerra, E. Chiarin, M. Renzi, M. Simoni, F. Righi, M. De Marchi</i>	

Wednesday 9 September

Session 44. Methodological Innovations for Genomic Analysis and Prediction

Room: Room Z
Commission(s): Genetics, Physiology
Chair(s): Bonifazi, Cieleń
Session Type: Theme session

Theatre Session 44		Book of Abstracts page
8:30	Impact of the Bulmer effect is stronger than typically assumed when selecting on polygenic traits	778
	<i>Y. Wientjes, M. Calus, P. Bijma</i>	
8:45	Loss of Genetic Variance in Simulation Studies: Comparing the Effect of Selection on Classical and Deep Learning based Genetic Simulation Models	779
	<i>O. Onabanjo, T. Meuwissen, H. M. Gjøn, E. Karaman, T. T. Chu, P. Berg</i>	
9:00	Impact of non-additive genetic architecture, QTL number, and reference population size on the relative performance of machine learning and GBLUP models	780
	<i>J. Yang, P. Duenk, M. Calus, Y. Wientjes</i>	
9:15	A novel Monte Carlo method for approximating the null hypothesis in genomic-window genome-wide association analyses	781
	<i>D. López-Carbonell, M. Sánchez-Díaz, F. Barceló-Blasco, L. Varona</i>	
9:30	Optimising GCTA for improved parallelisation of large-scale association testing	782
	<i>A. Leonard, N. Kadri, N. Watson, Q. He, H. Pausch</i>	
9:45	Geometrical Linkage Disequilibrium between SNPs Dominance Effects and a Quantitative Trait	783
	<i>L. Gomez-Raya, W. M. Rauw</i>	
10:00	Misunderstood matrix: How changing the incidence matrix of social genetic effects changes the trait definition	784
	<i>B. Hegedüs, Z. Wang, C. A. E. M. Orsini, N. Galoro Leite, J. E. Bolhuis, P. Bijma</i>	

10:15	Coffee Break	
10:45	Deriving Metafounders from Cluster-Analysis: Application to Real Data	785
	<i>C. Edel, C. Anglhuber, E. C. Pimentel, R. Emmerling, J. Ertl</i>	
11:00	<i>Invited</i> Estimating variance components and genetic parameters in large genotyped populations	786
	<i>D. Lourenco, M. Bermann, G. Gowane, I. Misztal</i>	
11:30	Genetics Commission meeting in room session 45 (with election and discussion on next year's program)	
12:30	End of session	
Poster Session 44		Book of Abstracts page
44.1	Validating Indirect Genomic Predictions for Low and Moderately Heritable Traits	787
	<i>J. Thomason, F. Bussiman, A. Lima, S. Sanchez, A. Garcia, D. Lourenco</i>	
44.2	Fine-tuning Monte Carlo single-step genomic REML for variance components estimation in large datasets	788
	<i>M. Bernardes, M. Bermann, A. Álvarez-Munera, I. Misztal, D. Lourenco</i>	
44.3	Modelling missing pedigree using metafounders and validating genomic predictions in small sheep population	789
	<i>A. Phillips, C. M. Rochus, J. Ramljak, Z. Barač, M. Špehar, A. Kasap, I. Pocrnić</i>	

Session 45. Advances in Genomics and Breeding Across Livestock Species

Room: Room X6
Commission(s): Genetics
Chair(s): Dodd, Schiavo
Session Type: Free communications (bottom-up)

Theatre Session 45		Book of Abstracts page
8:30	Visualization of changes in relationships among traits over time – example in type traits	790
	<i>M. Misztal, I. Misztal, D. Lourenco</i>	
8:45	Establishment of a Nationwide Monitoring System for Genetic and Phenotypic Trends in German Dairy Cattle	791
	<i>J. Gürtler, B. Albert, C. Edel, R. Emmerling, C. Schmidtman</i>	
9:00	Temporal Dynamics of Major SNPs Identified by Large-Scale Single-Step GWAS in Broiler Chicken Populations	792
	<i>B. Moreno, M. Bermann, F. Bussiman, N. Stafuzza, V. Likness, D. Lourenco</i>	
9:15	Enhancing individual egg number records in group-housed laying hens through integration of behavioral patterns and automated nest system records	793
	<i>C. M. Sun, C. Reimer, A. Weigend, N. Goetzke, S. Weigend, J. Geibel</i>	
9:30	Breeding strategies for pike-perch (Sander lucioperca) in recirculating aquaculture systems in Denmark	794
	<i>H. M. Nielsen, J. Willemijn Verweij, J. Overton, T. Boutrup, T. Tuan Chu</i>	
9:45	Optimal SNP selection for parentage discovery in large, genotyped populations	795
	<i>A. Garcia, P. Ramos, R. Medeiros, L. Novo, K. Retallick</i>	
10:00	Partitioning the genetic architecture of reproduction traits in Holstein cattle using local heritability	796
	<i>L. Schwarz, J. Bennewitz, J. Tetens, G. Thaller</i>	
10:15	Coffee Break	
10:45	Large-scale identification of breed-specific alleles in cattle and their potential impact	797
	<i>J. S. Schlüter, F. Heinrich, M. Gültas, A. O. Schmitt</i>	
11:00	Detection of sex chromosome aneuploidies using SNP array intensity data: an application in pigs.	798
	<i>M. Londoño-Gil, M. F. L. Derks, N. G. Leite, C. Sevillano, E. Grindflek</i>	
11:15	Estimation of semen variability phenotypes in boars used for artificial insemination	799
	<i>P. Sá, R. Mezencio Godinho, E. Grindflek</i>	
11:30	Genetics Commission meeting (with election and discussion on next year's program)	
12:30	End of session	
Poster Session 45		Book of Abstracts page
45.1	easybreederR: An integrated R shiny application for breeding data analysis	800
	<i>H. Tang, H. A. Mulim, H. R. D. Oliveira</i>	

45.2	Towards a Stillbirth Monitoring System for German Holstein Dairy Cattle in the MGPT Project <i>F. Fischer, L. Hüneke, L. Völker, Y. Zheng, C. Schmidtman, G. Thaller, C. Reimer, C. Klein, C. Kühn, J. Geibel</i>	801
45.3	Monitoring of Genetic and Phenotypic Trends in German Dairy Cattle – Project MGPT <i>B. Albert, J. Gürtler, R. Emmerling, L. Hüneke, C. Kühn, G. Thaller, J. Bennewitz, C. Schmidtman</i>	802
45.4	High-Sensitivity Detection of Genome-Edited Pigs and Cattle by CAST-PCR <i>F. Poulain, M. Dias Mirandela, F. Debode, V. Gelhay, C. Muys, B. Renaville</i>	803
45.5	Genetic investigation of the boar taint compounds androstenone and skatole using SNP chip data and whole genome sequencing data in dam lines <i>K. M. Flüchten, I. Brinke, C. Große-Brinkhaus, M. J. Pröll-Cornelissen, H. Henne, E. Tholen, C. M. Dauben</i>	804
45.6	How Pure is Pure Breeding? A Case Study of a commercial German pig breed <i>L. Kistner, A. Olschewsky, L. Vollmer, C. Reimer, D. Hinrichs</i>	805
45.7	Local ancestry aware genome-wide association study of dairy traits using both purebred and crossbred data <i>B. Poulsen, H. Liu, E. Karaman</i>	806
45.8	Genetic Markers Associated with Slaughter Yield in Intensively Fattened Lambs Raised in Latvia <i>E. Leonova, M. Martins, D. Malakovska, S. Plavina, N. Krasnevskā, J. Paramonovs, D. Kairisa, N. Paramonova, I. Trapina</i>	807
45.9	Semen Cryopreservation as a Conservation Strategy for the Native Species <i>Salmo ghigii</i> in Sardinia: Results on Fertilization and Embryonic Development <i>F. Chessa, F. Curreli, L. Mara, I. Cossu, A. Sabattini, P. Casula</i>	808
45.10	Characterization of Missense Mutations in Acute Phase Proteins in a Cellular Model for Chicken Amyloid Arthropathy <i>N. F. Paul, E. Maier, J. Tetens, C. Falker-Gieske</i>	809
45.11	De-novo assembly of a high-quality, haplotype-resolved genome assembly for the Ugandan Ankole cattle <i>R. Okwasiimire, M. Weldenegodguad, M. Makgahlela, N. Ghanem, C. Ginja, R. Crooijmans, D. Kugonza, J. Kantanen, K. Pokharel, P. Uimari</i>	810
45.12	Influence of genetics and rumen microbiome on bovine milk vitamin B2 and B12 <i>A. J. Buitenhuis, L. E. Rodrigues, N. A. Poulsen, C. W. Heegaard, G. Gebreyesus</i>	811
45.13	Near teleomere-to-telomere assemblies of Swedish commercial dairy cattle breeds, Swedish red- and white, Holstein and Jersey <i>A. E. Lundberg, T. Vanhala, T. Klingström</i>	812
45.14	Accuracy of Genomically Enhanced Breeding Values in South African Holstein Cattle for Milk Production Traits <i>K. Mafofo, F. Nester, E. Cason, D. Vermeulen, M. Macneil, M. Makgahlela</i>	813
45.15	Comparison of genomic evaluation models on simulated crossbred dairy cattle populations <i>C. A. Cunha Cambraia, P. Croiseau, D. Boichard, S. Fritz, A. A. Martin</i>	814
45.16	Unknown Parent Groups in Turkish Holsteins: Metafounders Approach <i>A. Kasakolu, M. Yıldırım, O. Yiğit, F. G. Mızrak, E. Ünay, S. Koncağül</i>	815

Session 46.

'How does the diversity of European cattle and poultry livestock systems influence the quality of meat and milk, and the sustainability of farms?' Key outcomes from the European INTAQT project

Room: Room X7-9
Commission(s): Cattle, Poultry, Pig, Livestock Farming System
Chair(s): Martin, Berri
Session Type: Project session

Theatre Session 46		Book of Abstracts page
8:30	Invited Combining sustainable poultry farming and meat quality: Insights from the intaqt project <i>C. Berri, L. Darrigade, M. Bourin, E. Baéza, R. Eppenstein, M. Petracci, S. De Smet</i>	816
8:45	Nutritional outcomes of high-intensity broiler farming with regard to amino acid patterns and protein digestion efficiency <i>V. Santé-Lhoutellier, L. Aubry, C. Selebran, V. Lopez, V. Lopez, L. Darrigade, S. De Smet, M. Petracci, R. Eppenstein, A. Travel, C. Berri</i>	817
9:00	Effect of outdoor enrichment and dietary supplementation with n-3 fatty acid precursors and antioxidants on meat quality of free-range chickens <i>M. Bordini, A. Cartoni Mancinelli, E. L. Antenucci, M. A. Gagliano, F. Soglia, A. Dal Bosco, M. Petracci</i>	818

9:15	Identifying farming practices associated with beef fatty acids, trace minerals and antioxidants across European production systems <i>A. Mouhanna, J. Hocquette, B. Martin, N. Amalfitano, R. Eppenstein, N. Scollan, M. Estévez, I. Legrand, S. De Smet</i>	819
9:30	Occurrence of persistent organic pollutants, mycotoxins and heavy metals in liver of beef in different farming systems <i>D. Linsler, C. Kürbis, A. Lueth, M. Yamamoto, R. Pieper, J. F. Hocquette, R. Eppenstein, B. Martin, L. Darrigarde, M. Estévez Garcia, V. Caballero Fernández, P. Mccarron, F. Klevenhusen</i>	820
9:45	Linking dairy system, breed, and welfare indicators to infrared-predicted fine milk composition and cheese-making traits in Parmigiano Reggiano cheese production area <i>N. Amalfitano, M. A. Ramirez Mauricio, M. Berton, D. Giannuzzi, L. F. Macedo Mota, M. Nocetti, S. Pegolo, L. Gallo, E. Sturaro, A. Cecchinato</i>	821
10:00	A harmonized methodological framework for multi-criteria assessment of intrinsic quality in EU livestock products <i>L. Rey-Cadilhac, J. Soulat, F. Klevenhusen, J. F. Hocquette, C. Berri, B. Martin, V. Monteils, C. Laurent</i>	822
10:15	Coffee Break	
10:45	Number of animal lives vs. quality of life in broiler, dairy, and beef production <i>E. Caumette, B. Martin, C. Berri, R. Eppenstein, I. Veissier</i>	823
11:00	Milk mid-infrared spectra potentially authenticates farming system intensification level and season of production <i>C. L. Manuelian, D. Martini, A. Goi, M. Coppa, E. Caumette, C. Grelet, R. Eppenstein, M. Gelé, B. Martin, M. De Marchi</i>	824
11:15	Infrared spectroscopy for farming system classification and beef quality assessment: a multi device chemometric approach <i>A. Lopez, B. Martin, J. F. Hocquette, I. Constant, O. Joubert, V. M. Moretti, D. Andueza</i>	825
11:30	Cattle Commission meeting (with election and discussion on next year's program)	
12:30	End of session	

Poster Session 46		Book of Abstracts page
46.1	Evaluating the Impact of Traditional Montanera vs. Intensive Feeding Systems on Technological Meat Properties in Iberian Pigs: Implications for System Resilience <i>M. Freire, J. Garcia-Gudiño, A. Ortiz, L. León, A. I. Del Rosario, D. Tejerina</i>	826
46.2	Factors influencing the phospholipid profile and concentration in cow milk: A study in commercial European dairy farms varying in intensification level <i>V. Menoury, B. Martin, L. Rey-Cadilhac, A. Ferlay</i>	827

Session 47.

Animal microbiomes - moving forward from taxonomic to functional information - in conjunction with the Horizon 2020 Holoruminant project - Part 1

Room: Room X4-5
Commission(s): Physiology
Chair(s): Seifert, Kenny
Session Type: Theme session

Theatre Session 47		Book of Abstracts page
8:30	Early-life antimicrobial treatment have long-term effects on the fecal microbiota of dairy calves <i>A. Ortiz Chura, M. Popova, A. Bachelet, D. P. Morgavi</i>	828
8:45	The effect of transitioning from low energy to high energy diets, and vice versa, on viruses and their hosts in the rumen fluid and faeces of Holstein dairy cows <i>D. A. Linde, J. S. Saenz, M. Bakiasi, J. Seifert</i>	829
9:00	Metaproteomic Insights into Energy-Driven Microbial and Protozoal Functional Shifts Across the Ruminant Gastrointestinal Tract <i>M. Bakiasi, J. S. Saenz, J. Seifert</i>	830
9:15	Plasma Extracellular Vesicle Proteomics Reveals Systemic Metabolic Adaptation to Dietary Energy Transition in Dairy Cows <i>A. Malik, M. H. Ghaffari, N. Ranjbar, F. Shakeri, A. Buness, M. Sylvester, H. Sauerwein</i>	831

9:30	Industry-level value and welfare consequences of methane-reducing feed additives in EU ruminant value chains	832
	A. Ait-Sidhoum, F. Bedoin, J. K. Niemi	
9:45	Enabling Methane Mitigation with Standardized Rumen Microbiome References and Pipelines	833
	Z. Cai, M. A. Satti, M. Maigaard, I. Farhana, S. Zhang, T. D. E. Rozada, A. Schönherz, S. J. Noel, M. R. Weisbjerg, G. Sahana	
10:00	Response of primary mammary epithelial cells to pathogen challenge in dairy cows	834
	T. Iso-Touru, F. Panitz, D. Fischer, S. Taponen, Z. Cai, G. Sahana, K. Kondrotienė, M. Malakauskas, I. Tapio, J. Vilkki	
10:15	Coffee Break	
10:45	Mapping Tryptophan-Derived Metabolites along the Bovine Small Intestinal Tract: An Evolutionarily Distinct Host–Microbiota Adaptation in Ruminants?	835
	A. Veshkini, S. Bes, J. Tournayre, A. Imbert, M. Bonnet	
11:00	Deciphering the Bovine Nasal Microbiome by reconciling 16S rRNA sequencing and culturomics	836
	S. Méndez Barroso, G. Pot, M. Monié-Ibanes, H. Robert, D. Bars-Cortina, X. Laurent Nouvel, C. Citti, K. Kochanowski, N. Mach	
11:15	Dietary supplementation with buffer and protected amino acids improves milk production and modulates microbiota in heat-stressed primiparous dairy goats	837
	E. Romera-Recio, E. Ramos, M. Romero-Huelva, I. Rivelli, J. Barroso, A. Gomez-Mesonero, D. R. Yanez-Ruiz	
11:30	Physiology Commission meeting (with election and discussion on next year's program)	
12:30	End of session	
	Poster Session 47	Book of Abstracts page
47.1	Exploring Bacterial Defluorination of Sodium Fluoroacetate in Rumen Fluid	838
	E. D. Cason, R. Kaputjaza, G. C. Josling, J. B. Van Wyk, P. D. Vermeulen, F. W. C. Nesar	
47.2	Influence of post-birth management and milk replacer feeding level on early life performance, health and behaviour of dairy calves	839
	G. Scoley, K. Lawther, S. Huws, C. Ferris	
47.3	Is the Pig Faecal Microbiota Shaped by Host Genetics?	840
	C. Engelking, A. Camarinha-Silva, M. Rodehutscord, J. Bennewitz, V. P. Haas	
47.4	Comprehensive analysis of rumen-derived bacteriocin-producing Lactococcus lactis for Streptococcus biofilm control strategies	841
	A. Elnar, M. A. Batican, J. Jeong, G. Kim, R. Kang, T. Park	

Session 48.

Unravelling the next generation animal nutrition: functional feed ingredients and additives - Part 2

Room: Room X2-3
Commission(s): Nutrition
Chair(s): Alvarez-Rodriguez, Kar, Foggi
Session Type: Theme session

Theatre Session 48		Book of Abstracts page
8:30	Effects of selected rapeseed meal cultivars in low-protein diets on performance and oxidative stress in dairy cows and their calves during the periparturient period	842
	<i>S. Lemosquet, H. Quesnel, Y. Le Cozler, B. Graulet, J. C. Martin, F. Gondret</i>	
8:45	Supplementing a <i>Bacillus</i> -based probiotic to mitigate acidosis in beef cattle consuming a high-concentrate diet	843
	<i>R. Cooke, B. Cappellozza</i>	
9:00	Effects of inoculation of corn silage with <i>Lactobacillus buchneri</i> and <i>Lactococcus lactis</i> on silage quality and stability, and production performance and efficiency in beef cattle	844
	<i>S. Grossi, C. A. Sgoifo Rossi</i>	
9:15	Effects of Biochar Supplementation on Milk Yield, Milk Composition, Milk Fatty Acids and Health in Dairy Cows	845
	<i>A. N. Rückert, D. Dannenberger, A. Eggert, M. Oster, H. Reyer, A. Vernunft</i>	
9:30	Effects of supplementing 25 OH vitamin D3 on immune markers and colostrum quality in Holstein cows during the transition period, and on plasma vitamins and metabolites in their newborn calves	846
	<i>S. Lashkari, M. Vestergaard, N. B. Kristensen, T. D. Turner, S. K. Jensen</i>	

9:45	Effects of a rumen-protected choline prototype on milk yield and composition, liver triglyceride, and blood parameters for early lactation Holstein cows exposed to feed restriction	847
	<i>C. Bradford, N. Hogan, T. Mutsvangwa, G. Penner</i>	
10:00	Breed impacts voluntary intake of hydroxychloride and sulphate sources of trace minerals in beef heifers	848
	<i>D. Brito De Araujo, K. V. Z. Augusto, M. A. F. Porcionato, J. L. M. Vasconcelos, P. Moriel</i>	
10:15	Coffee Break	
10:45	Post-weaning optimization by using fibrous concentrate and essential oils supplementation in lambs	849
	<i>A. H. Chekikene, J. Muñoz-Grein, N. Ghallabi, A. Belanche</i>	
11:00	Effects of oilseed supplementation on organoleptic and nutritional quality of Rubia Gallega veal	850
	<i>C. Montes, S. Crecente, C. García, R. Alonso, T. Moreno</i>	
11:15	Immune-activating PhytoComplex solution reduces cryptosporidiosis severity in neonatal calves through Interleukin-18–mediated host defense	851
	<i>M. De Kock, Y. Han, E. H. Wall, M. M. Mia, A. R. Azam, W. H. Witola</i>	
11:30	Nutrition Commission meeting (with election and discussion on next year's program)n on next year's program)	
12:30	End of session	
Poster Session 48		Book of Abstracts page
48.1	Supplementing a <i>Bacillus</i> -based probiotic to mitigate frothy bloat in beef cattle receiving a high-concentrate diet	852
	<i>R. Cooke, B. Cappellozza</i>	
48.2	Effects of vitamin D ₃ on cell viability, myogenic regulatory factors, and antioxidant responses in bovine skeletal muscle cells under heat stress	853
	<i>J. H. Lee, X. C. Jin, B. M. Kim, H. J. Oh, J. S. Lee, H. G. Lee</i>	
48.3	Targeted cis-9, trans-11 CLA bioconversion in in vitro rumen fermentation catalyzed by <i>Bifidobacterium</i> -based probiotic and postbiotic supplementation	854
	<i>A. Elnar, J. Jeong, G. Kim, R. Kang, G. B. Kim, T. Park</i>	
48.4	The effect of lowering the crude protein of dairy diets with the addition of either a molasses based liquid feed (Regumix) alone or with Regumix + methionine supplementation on production performance and efficiency	855
	<i>G. Chapman, P. Holder</i>	
48.5	Dietary Polyphenols Modulate Milk Production and Udder Inflammation in Commercial Dairy Herds	856
	<i>G. H. M. Marcelino, W. V. B. Soares, B. Hortolani, L. C. Roma Junior</i>	
48.6	Effect of a phytogetic ingredient mixture on rumen degradability of soybean meal protein	857
	<i>F. Gadeyne, J. Jeyanathan, V. Fievez</i>	
48.7	Optimizing amino acid supply in early lactation cows improves production performance in commercial farm conditions	858
	<i>A. Vigh, M. Müller, J. Guyader</i>	
48.8	Microalgae supplementation enhances omega-3 PUFA in lamb meat and its consumption improves blood fatty acid status in consumers	859
	<i>L. Perkins, O. Cristobal Carballo, F. Godoy Santos, S. Morrison, A. Aubry, E. Lewis, T. Yan, N. Scollan, S. Huws</i>	

Session 49.

The role of intrinsic and extrinsic quality in beef industry

Room: Room X10
Commission(s): Cattle
Chair(s): Pethick, De Marchi, Singh
Session Type: Theme session

Theatre Session 49		Book of Abstracts page
8:30	Grape pomace silage in the finishing diet of beef steers	860
	<i>L. Forte, M. Santoro, G. Calzaretti, F. Rosalia, R. Roma, P. De Palo, A. Maggiolino</i>	
8:45	Multivariate relationships between carcass, muscle, and beef eating quality traits in Limousine cull cows	861
	<i>Y. Cui, A. Neveu, M. Kombolo, J. Liu, I. Legrand, F. Noel, P. Faure, D. Pethick, M. P. Ellies-Oury, J. F. Hocquette</i>	
9:00	The effect of post-slaughter time on marbling scores in beef carcasses	862
	<i>H. Shand, S. Connaughton, G. Gardner</i>	

9:15	Physicochemical quality differentiation of European beef cuts by retail price category, sex, and region reared <i>Y. Singh, M. Pozza, D. Martini, M. De Marchi</i>	863
9:30	REIMS-based metabolic fingerprinting discriminates animal categories across muscle types, and ageing regimes in beef loin <i>Y. Cui, A. B. Ross, C. Realin, R. Zhang, D. Mou, V. Ruppert, J. F. Hocquette</i>	864
9:45	Growth performance in Chianina cattle: a 10-year database comparison between PGI production scheme and EU mandatory beef labelling system <i>A. Fioroni, L. Seri, R. Fioroni, V. Bolletta, M. Pauselli</i>	865
10:00	When beef turns brown: a cross-country comparison of consumer preferences in Germany and USA <i>B. A. Altmann, E. López-Escalante, A. Thies, N. Kemper, M. N. Nair</i>	866
10:15	Coffee Break	
10:45	Can bone mineral density by dual-energy X-ray absorptiometry predict age, shear force, and collagen in cull cows' carcasses? <i>P. G. Vilas Boas, S. L. Connaughton, C. L. C. Nunes, L. K. E. S. Jesus, G. E. Gardner, M. L. Chizzotti</i>	867
11:00	Effect of breed and post-mortem aging time on beef eating quality assessed by untrained Brazilian consumers <i>N. Mendes, W. Baldassini, M. Coutinho, G. Rovadoscki, T. Oliveira, L. Chardulo, J. F. Hocquette</i>	868
11:15	Bovine appeasing substances before and after transport reduce beef stress <i>M. D. M. Campo, J. Vieira Romero, N. Huanca Marca, G. Miranda De La Lama</i>	869
11:30	Cattle Commission meeting in room session 46 (with election and discussion on next year's program)	
12:30	End of session	
Poster Session 49		Book of Abstracts page
49.1	Authentication of dry and wet aging in Angus beef steaks by means of near-infrared spectroscopy <i>L. León, A. Ortiz, M. Freire, D. Tejerina</i>	870
49.2	Evaluation of texture in dry- and wet-aged beef at different pH under various packaging: a preliminary assessment <i>J. V. Romero, M. P. Lierta, J. L. Olleta, M. Bueno, M. M. Campo</i>	871
49.3	Incorporating dry-aged beef crust into burger patties: evolution of quality traits over a 7-day retail display <i>Y. Singh, M. Tóth, S. Sabbadin, D. Martini, M. Pozza, R. De Lazzari, M. De Marchi</i>	872
49.4	Delivering consistent beef eating quality in Poland: consumer sensory testing supporting the QMP scheme <i>A. Neveu, G. Pogorzelski, R. Polkinghorne, H. Cuthbertson, E. Pogorzelska-Nowicka, J. Wierzbicki</i>	873
49.5	Sensory quality and fatty acid composition of beef from Holstein–Friesian bulls finished with different protein sources <i>Z. Nogalski, M. Momot</i>	874
49.6	Predicting beef eating quality: Evaluation by INRAE of an innovative approach to align with consumer and stakeholder expectations <i>J. F. Hocquette, I. Legrand, A. Neveu, M. P. Ellies-Oury, S. Chriki, D. Troy, V. Molinéro-Demilly, F. Gaymard, R. Polkinghorne</i>	875

Session 50. Innovating Together: participatory, pluridisciplinary and multi-level approaches to livestock systems and agroecological transition

Room: Room Y8-9
Commission(s): Livestock Farming System
Chair(s): Siqueira, Morgan, Thenard
Session Type: Theme session

Theatre Session 50		Book of Abstracts page
8:30	Invited Participatory and iterative approach to design collective strategies of crop-livestock integration <i>F. Stark, M. Moraine, M. Grillot, J. Ryschavy</i>	876
9:00	Livestock system transformation as a societal task: governance lessons from a stalled multi-stakeholder strategy in Germany <i>B. Grabkowsky, N. Zubek, T. Blaha</i>	877
9:15	A Biocultural Diversity Index for Assessing Animal Husbandry Sustainability <i>B. A. Altmann, C. Heindorf, L. Jung, N. Kemper, E. Varela</i>	878

9:30	Multicriteria evaluation of mixed sheep-beef production systems <i>P. Madrange, L. Thuault, M. Velghe, S. Passerieux, M. Miquel</i>	879
9:45	Network Focus Animal Welfare – how to transfer practice-orientated knowledge into practice <i>K. Brase, C. Lambertz</i>	880
10:00	How do livestock farming system issues come into play in the design of breeding programs for agroecology? Key points from researchers' narratives of their experiences in a transdisciplinary project <i>P. Coeugnet, N. Bedere, J. Labatut, F. Phocas, G. Restoux, M. Tixier Boichard, A. Lauvie</i>	881
10:15	Coffee Break	
10:45	Co-designing climate adaptation strategies in PDO/PGI livestock territories: a typology of participatory and multi-level approaches from the ADAoPT project <i>D. Neumeister, F. Bedoin, R. Lasbleiz, S. Dernas</i>	882
11:00	Lessons learned from living labs on Swiss and Italian beef production in the Project “INnovative Tools for Assessment and Authentication of chicken meat, beef and dairy products’ QualiTies” <i>R. Eppenstein, E. Sturaro</i>	883
11:15	SPICER ² : a multi-partners network to promote the improvement of Cultures-Livestock Interactions in the French agriculture <i>P. Mischler, G. Martel, M. Moraine, V. Thenard, S. Ramonteu, S. Pissonier, C. Gava, S. Bruley, E. Merot</i>	884
11:30	LFS Commission meeting (with elections and discussion on next years' program)	
12:30	End of session	

Poster Session 50		Book of Abstracts page
50.1	Enhancing interoperability through transparent multidirectional data architecture for individual animal data valorization in the pig value chain <i>S. Retz, D. Moerlein, Y. Chen, Z. Bodor, F. Heinrich, A. Schmitt, H. Grevemeyer, V. Beck, S. Fischer, R. Hoelscher</i>	885
50.2	Supporting Farmers in Developing Systems with Higher Human-Edible Protein Output: Balancing Animal and Crop Production at Farm Level <i>B. Genin, M. Fazzari, P. Aeby, E. Ollion, P. Rufer, P. Veyssset, B. Reidy</i>	886
50.3	Understanding drivers and barriers for implementing grassland and feeding measures to reduce ammonia and methane emissions in Dutch dairy farming <i>A. Van Den Pol-Van Dasselaar, W. Van De Geest</i>	887
50.4	Integrated assessment of sustainability indicators in pasture-based and intensive dairy sheep systems in Central Italy <i>A. Iannetta, M. Dos Santos Lima, L. Torricella, L. Baldacchini, C. Cimini, L. Iannetti, G. Vignola, A. Collin, M. Podaliri Vulpiani</i>	888

Session 51. Efficiency and mitigating emissions in pig production – strategies to reduce nitrogen and phosphorus losses, including amino acid nutrition - Part 1

Room: Room Y4
Commission(s): Pig, Nutrition
Chair(s): Girard, Lawlor, Chalvon Demersay
Session Type: Theme session

Theatre Session 51		Book of Abstracts page
8:30	Invited Evaluation of animal-level strategies for reducing nitrogen and phosphorus losses and their effectiveness in mitigating the environmental burden of pig production <i>F. Garcia-Launay, L. Cappelaere, F. De Quelen, P. Lin, P. Schlegel, R. Aklikokou, M. P. Létourneau Montminy</i>	889
9:00	Variation in N and P excretion from sows, weaners and grower-finisher pigs <i>A. L. F. Hellwing, P. Tybirk, S. S. Grove, P. Kai, C. F. Børsting</i>	890
9:15	Continuous monitoring of ammonia emissions in a fully slatted, mechanically ventilated commercial finishing pig facility, Ireland <i>I. M. Aroh, G. Mccutcheon, D. Krol, R. Kuneš, S. Conolly, E. G. Manzanilla, T. Curran, L. Clarke</i>	891
9:30	Integrated nutritional and housing strategies to improve nitrogen utilization efficiency and mitigate ammonia emissions in pig production <i>E. Nnando, C. Anozie, E. Aidelomon</i>	892

9:45	Low-protein diets with graded essential amino acid supplementation as a strategy to improve nitrogen utilisation and reduce ammonia production in growing-finishing pigs reared under contrasting hygienic conditions	893
	<i>A. Antonacci, P. Silacci, G. Bee</i>	
10:00	A controlled medium scale open circuit chamber approach to quantify the effect of crude protein and lysine supply on nitrogen efficiency and ammonia emissions in pigs	894
	<i>S. Goethals, T. Van De Gucht, N. Peiren, P. Bikker, A. J. Jansman, S. Millet</i>	
10:15	Coffee Break	
10:45	Effects of dietary lysine supply on nitrogen utilisation in organic growing–finishing pigs	895
	<i>L. Stødtkilde, T. F. Pedersen, E. T. Jørgensen, M. Eskildsen</i>	
11:00	Evaluating the Role of Dietary Silicate (SiO ₃) and Zinc Oxide on Growth Performance, Nutrient Utilization, Gas Emission, Blood parameter and Environmental Impact in Weaning Pigs	896
	<i>K. Das, S. Y. Jang, L. Pu, D. K. Kang, I. H. Kim</i>	
11:15	Reducing environmental nitrogen losses through improved nitrogen retention in weaned piglets fed humic acids	897
	<i>S. Rongen, I. Van Den Belt, A. Van Enkevort, I. Van As</i>	
11:30	Pigs Commission meeting (with elections and discussion on next years' program)	
12:30	End of session	
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51.1	Relationship between nitrogen and phosphorus intake during pig fattening and the CO ₂ footprint per kilogram of live weight.	898
	<i>S. Rosengart, C. Timme, S. Büngener-Schröder, K. Sehlen, J. Gickel, C. Visscher</i>	
51.2	Feeding the balance: how diet optimisation goals affect nitrogen and phosphorus inputs and outputs in Swiss grower-finisher pigs	899
	<i>M. Girard, M. Lautrou, P. Schlegel</i>	
51.3	Impact of swine influenza on greenhouse gas (GHG) emissions on Japanese commercial farms	900
	<i>S. Yoshikawa, A. Ogino, J. Mine, K. Miyazawa, Y. Uchida, Y. Mizoguchi, Y. Sasaki</i>	
51.4	Evaluation on low crude protein diet with protease supplementation on growth performance, fecal score, backfat thickness and lean meat percentage, nutrient digestibility, meat quality, and carcass grade in finishing pigs	901
	<i>K. J. Lee, C. C. Henry, K. Das, D. K. Kang, I. H. Kim</i>	
51.5	Effects of dietary silicate supplementation with varying levels of proteins on growth performance, nutrient digestibility, gas emission, blood profile and fecal score in weaning pigs	902
	<i>S. Y. Jang, K. Das, J. H. Kim, K. Han, I. H. Kim</i>	
51.6	Individual and Combined Supplementation of Microbial Phytase and β-Mannanase in Growing Pigs: Impacts on Growth Performance, Nutrient Digestibility, and Fecal Scores	903
	<i>S. Y. Jang, W. Zhao, L. Pu, D. K. Kang, I. H. Kim</i>	

Session 52. Assessing Animal Welfare: Protocols, Indicators and Emerging Approaches

Room: Room Y3
Commission(s): Health and Welfare, Sheep and Goat, Pig, Genetics
Chair(s): Trocino, Almeida
Session Type: Challenge session

Theatre Session 52		Book of Abstracts page
8:30	Session starts at 9.15	
9:15	Feasibility and repeatability of standard protocol to assess animal welfare	904
	<i>O. Girardie, A. Velarde, J. Zemzmi, M. Campoy, L. Baldacchini, M. Milazzo, L. J. Vinco, S. Podda, V. Monistero, C. Tolini, A. Trocino, S. Celozzi, M. Guinebretière, V. Michel</i>	
9:30	Animal Welfare Index – A new on-farm welfare assessment method	905
	<i>D. Debiasi, S. Götz, U. Höne, J. Krieter, J. Probst, N. Kemper, S. Küster, I. Reker, G. Otto, I. Traulsen</i>	

9:45	New welfare assessment protocol for dairy cattle herds	906
	<i>L. Frondelius, M. Mughal, L. Tuomisto, K. Sarjokari, T. Koistinen</i>	
10:00	Potential of barn climate parameters as iceberg indicators in welfare assessment and their relationships with productivity in fattening pigs	907
	<i>N. Puttkammer, J. Witt, K. Büttner, J. Krieter, P. Sandøe, I. Czycholl</i>	
10:15	Coffee Break	
10:45	Effect of dehorning on salivary cortisol responses in South African Bonsmara beef calves	908
	<i>R. Erasmus, M. Combrink, C. Uys, S. Lashmar, E. Van Marle-Köster</i>	
11:00	Circulating MiRNAs as Potential Biomarkers Of Pain And Stress in Piglets Undergoing Castration	909
	<i>E. Nadlučnik, M. Arigoni, R. Calogero, M. Štukelj, C. Lecchi</i>	
11:15	Effect of plumage condition on the welfare of end-of-lay broiler breeders exposed to a transport model	910
	<i>J. Verlaat, E. M. Leishman, C. J. A. Williams, M. S. Herskin, A. B. Riber</i>	
11:30	Health and Welfare Commission meeting (with elections and discussion on next years' program)	
12:30	End of session	

Poster Session 52		Book of Abstracts page
52.1	Indicators for assessment of animal welfare on euthanized or deceased animals	911
	<i>C. Over, B. Prottengeier, R. Magner, S. Schlierenkamp, U. Schultheiß</i>	
52.2	Field Feasibility and Repeatability of Standardised Protocols for Turkey Welfare Assessment	912
	<i>V. Monistero, S. Podda, O. Girardie, V. Michel, A. Velarde, N. Abdelli, J. Zemzmi, S. Celozzi, V. Ferrante, L. J. Vinco</i>	
52.3	Animal welfare in pork production: Farmer and Veterinarian perspectives	913
	<i>M. E. Lagoda, K. A. Moak, K. Arisman, M. Kaczur, T. L. Sandri, N. Wuyts, L. Van De Weyer, Y. M. Seddon</i>	
52.4	Harmonization and Standardization of Indicators for Assessing Sheep Welfare	914
	<i>M. Milazzo, C. Cimini, L. Baldacchini, D. Hazard, N. Abdelli, D. R. Arney, F. Johansen, J. Zemzmi, O. Girardie, G. E. Martin Valls, V. Michel, M. Podaliri Vulpiani, A. Velarde, L. Iannetti, S. Mullan</i>	
52.5	Sensor-based monitoring of behavioural adaptation of dairy calves during regrouping from individual or social housing to group housing	915
	<i>J. M. Chapa Gonzalez, J. Sonntag, S. Wiedemann</i>	
52.6	On-farm self-assessment – tools to improve cattle welfare	916
	<i>J. Brinkmann, K. Cimer, S. March, S. Ivemeyer, A. Pelzer, U. Schultheiß, R. Zapf, C. Winckler</i>	
52.7	Promoting Cattle Welfare Planning	917
	<i>U. Peschel, J. Brinkmann, S. March</i>	

Session 53. The EUnetHorse project: results and new research perspectives

Room: Room Y5
Commission(s): Horse
Chair(s): Vial, Mathieu
Session Type: Project session

Theatre Session 53		Book of Abstracts page
8:30	From Knowledge to Practice: Ensuring Long-Term Impact in the European Equine Sector through EUnetHorse and TANet	918
	<i>N. Aldai, E. Martínez-Monasterio, S. Vilumbrales, S. Kuhnke, A. Julien, M. Addes, E. C. Eunethorse Consortium</i>	
9:00	Improving resilience of equine farms: EUnetHorse's methodology for assessment of solutions and best practices in the areas of animal welfare, socio-economics and environmental sustainability	919
	<i>U. König Von Borstel, S. Lojewski, L. Rantamäki-Lahtinen, E. U. Eunethorse Consortium, M. Addes</i>	
9:30	EUnetHorse : Recognising the equine sector : unlocking its contribution to Europe's climate, rural and competitiveness goals	920
	<i>M. Addes, A. Julien, M. Rinne, L. Tourneur, A. Santos, N. Aldai</i>	
10:00	Group discussion Part 1	921
	<i>M. Addes, C. Vial, G. Mathieu</i>	
10:15	Coffee Break	

10:45	Group discussion Part 2	922
	<i>M. Addes, C. Vial, G. Mathieu</i>	
11:30	Horse Commission meeting (with elections and discussion on next years' program)	
12:30	End of session	

Session 54. Towards smart livestock systems: next-generation PLF technologies and sound-based monitoring

Room: Room Y6
Commission(s): Precision Livestock Farming
Chair(s): Lebreton, Maroto Molina, Foy, Volkmann
Session Type: Theme session

Theatre Session 54		Book of Abstracts page
8:30	Session starts at 8.45	
8:45	Thematic expert panel insights on state-of-the-art digital tools and technologies in the livestock sector	923
	<i>S. Youraki, V. Anestis, A. Arsenos, G. Arsenos, T. Bartzanas</i>	
9:00	UHF RFID technology in livestock applications: synthesis of French case studies in the ruminant sector over 10 years	924
	<i>S. Duroy, G. Tesnière, U. Jean-Louis, L. Depuille-Plais, P. G. Grisot, F. Gimbert, C. Medina, F. Dehmas, N. Deparis, D. Gautier, C. Allain</i>	
9:15	Machine Learning models for Auto-Annotation of Behavioral Data to Generate Digital Ethograms	925
	<i>D. Foy, T. Smith, J. Reynolds, T. Parsons</i>	
9:30	Individual fattening pig growth profile estimation	926
	<i>J. Sloomans, T. Norton, J. Maselyne</i>	
9:45	Risk Factors for Piglet Preweaning Mortality in Spanish Breeding Farms. Preliminary Results from the Bdporc-Smartporc Project	927
	<i>S. Rani, A. Arrazola, M. Pascual, N. Alos, M. Visa, M. Piles, R. Quintanilla, J. Tarres, L. Tusell</i>	
10:00	Drone-based mapping of geese range use under heat across pasture systems: implications for silvopastoral agroforestry design	928
	<i>J. Menne, S. Eßer, P. Eßer, S. Wiedemann</i>	
10:15	Coffee Break	
10:45	An introduction to bioacoustics with a focus on chicken vocal responses to birds of prey	929
	<i>A. Langehennig-Peristenidou, L. Hofmann, N. Kemper, N. Volkmann</i>	
11:00	Eyes & Ears – the auditory perspective: evaluating the potential of sound-based monitoring for livestock health, behaviour and welfare	930
	<i>M. Coutant, S. Ntalampiras, W. Wang, P. Llonch, E. Mainau, M. Van Der Sluis, L. Büttgen, C. Gaillard, L. Canario, T. B. Rodenburg</i>	
11:15	Development of a Practical Benchmark for Pig Vocalizations in Noisy Farm Environments	931
	<i>M. Wutke, H. Geffert, S. Geisler, S. Küster, C. Post, J. Wahmhoff, I. Reker, I. Traulsen</i>	
11:30	PLF Commission meeting (with elections and discussion on next years' program)	
12:30	End of session	
Poster Session 54		Book of Abstracts page
54.1	Efficient Bioacoustic Classification of Goat Vocalizations for Edge-Based Precision Livestock Farming	932
	<i>D. A. Mendez Reyes, S. Calvet Sanz</i>	
54.2	Sound levels during unloading, in lairage and in the stunning area in cattle slaughterhouses	933
	<i>S. Lühken, C. Nyanzi, K. Kauselmann, L. Schrader</i>	
54.3	Relationship between claw health and increased activity during milking as a supportive trait for lameness detection in dairy cows	934
	<i>P. Savary, D. Schönberger, M. Bodmer</i>	
54.4	Image-based classification of horned and polled Caracu cattle using machine learning	935
	<i>G. Fernandes, V. Weber, V. Ligor, L. Pereira, D. Lisboa, G. Borges, L. El Faro</i>	
54.5	Benchmarking pig detection and tracking under diverse and challenging conditions	936
	<i>J. Henrich, C. Post, M. Zilke, P. Shiroya, E. Chanut, A. Mollazadeh Yamchi, R. Yahyapour, T. Kneib, I. Traulsen</i>	
54.6	Automated Sorting of Finishing Pigs Under Commercial Barn Conditions	937
	<i>M. Tufail, N. Yeo, T. Tayenga</i>	

Session 55. Digitalization, artificial intelligence and Precision Livestock Farming (PLF) in Small Ruminants: From Sensors to Decision Support.

Room: Room Y7
Commission(s): Sheep and Goat, Precision Livestock Farming
Chair(s): Emsen, Karatzia
Session Type: Theme session

Theatre Session 55		Book of Abstracts page
8:30	Session starts at 8.45	
8:45	From counting small ruminants with drones and AI to future applications enabled by offered open data and computer vision models	938
	<i>A. Lebreton, T. Dechaux, E. Nicolas, P. G. Grisot, L. Helary</i>	
9:00	Feasibility of Pulse Oximetry and Infrared Thermometry for Monitoring Vital Signs in Dairy Goats	939
	<i>J. Muñoz-Quirós, B. Sosa-Marrero, M. González-Cabrera, A. Morales-Delanuez, A. Argüello, N. Castro, L. E. Hernández-Castellano</i>	
9:15	Effect of Heat Stress on Heart Rate Variability in Dairy Sheep at Pasture Using a Smartex Textile Sensor	940
	<i>L. Turini, L. Whatford, G. Foggi, A. Mantino, F. G. Cella, T. Malizzi, M. Mele</i>	
9:30	Accelerometer-based behavioural classification in grazing alpacas in the Andes: effects of sensor location and temporal window length	941
	<i>K. Salazar-Cubillas, S. Pizarro Carcausto, M. Zarria Samanamud, J. L. Contreras Paco</i>	
9:45	Lambing Detection in East-Friesian Dairy Sheep Using Pen-Level Acoustic Monitoring	942
	<i>N. Westendorff, B. Puppe, B. Eusemann-Keller, K. Helffenstein, B. Kuhla, C. Manteuffel</i>	
10:00	Prediction of milk metabolites from mid-infrared spectra and estimation of genetic parameters in dairy goats	943
	<i>C. Brosse, M. Calmels, M. Bonnet, N. Friggens, T. Fossier, J. Pires, R. Rupp</i>	
10:15	Coffee Break	
10:45	A Multi-Stage, Data-Driven Welfare Assessment Framework for Small Ruminants under Intensive Feedlot Conditions in a Hot-Arid Environment	944
	<i>E. Emsen, B. Odevci, A. Alkaabi, D. Alketbi, M. Kutluca Korkmaz</i>	
11:00	Artificial neural networks outperform partial least squares models for fatty acids estimation using FT-MIR spectrometry on bovine milk: a first step towards transfer learning on small ruminants.	945
	<i>E. Cabaraux, I. Alexakis, F. Sébastien, O. Christophe, C. Grelet, M. Calmels, C. Lecomte, C. Bertozzi, D. Veselko, F. Dehareng, H. Soyeurt</i>	
11:15	Early-life milk intake and drinking behaviour as predictors of growth and first-lactation performance in dairy goats	946
	<i>J. Caetano De Sousa, J. F. Ettema</i>	
11:30	Sheep and Goat Commission meeting (with elections and discussion on next years' program)	
12:30	End of session	
Poster Session 55		Book of Abstracts page
55.1	SNP-guided prediction of feed conversion ratio in Latvian sheep: machine learning models for marker-assisted selection.	947
	<i>M. Martins, N. Paramonova, S. Plavina, D. Malakovska, N. Krasnevska, J. Paramonovs, D. Kairisa, I. Trapina</i>	
55.2	Exploring a data-driven approach to evaluate general resilience in lambs through cumulative feed intake	948
	<i>F. Barchet, A. Oliveira Rocha, G. Ciappesoni, M. S. Aktar, L. F. Brito, I. De Barbieri</i>	
55.3	Combining multi-sensor data and machine learning for automated behaviour classification and disturbance detection in sheep	949
	<i>S. Gerwin, J. Henke-Von Der Malsburg, A. Vernunft</i>	
55.4	Assessment of Optimum Drying-Off model on Milk Yield in Assaf Ewes	950
	<i>I. Contreras-Solís, D. López-Carbonell, C. Palacios, J. A. Abecia</i>	

Session 56. Optimal and sustainable insect production

Room: Room Y10
Commission(s): Insects
Chair(s): Bellezza Oddon, Ottoboni, Veldkamp, Coudron
Session Type: Theme session

Theatre Session 56	Book of Abstracts page
8:30 Session starts at 9.00	
9:00 Mineral requirements of Tenebrio molitor larvae: magnesium, potassium and phosphorus needs <i>A. Moradei, P. Premarajan, M. Ottoboni, L. Pinotti, T. Spranghers</i>	951
9:15 Effects of structural fibre ingredients on black soldier fly (Hermetia illucens L.) larval growth at industrial and laboratory scales <i>S. Naser El Deen, E. De Lange, L. Francuski, S. Karanjit, T. Veldkamp</i>	952
9:30 Protein-to-soluble carbohydrate ratio in the diet for Tenebrio molitor imagoes modifies their reproduction, egg viability and young mealworm survival <i>T. Añón, M. Cambra-López, J. Just, J. J. Pascual</i>	953
9:45 The effect of tomato leaf waste handling on the growth performance, nutritional composition, and glycoalkaloids content in the desert locust Schistocerca gregaria <i>Y. Luo, N. Förster, M. Bogdanova, S. Schulz, I. Mewis, C. Ulrichs, W. Yakti</i>	954
10:00 From olive waste to insect biomass: evaluating increasing levels of olive pomace in black soldier fly production <i>R. Sorayani Bafqi, S. Bellezza Oddon, A. A. Melis, Z. Loiotine, I. Biasato, R. L. Passaro, L. Gasco</i>	955
10:15 Coffee Break	
10:45 Integrating Insect Production Into Greenhouse Systems: Using Tomato Leaf Biomass as Insect Feed <i>W. Yakti, Y. Luo, S. Bisch-Knaden, I. Mewis, C. Ulrichs</i>	956
11:00 Turning Waste into Value: Effects of olive fragments on Black Soldier Fly Larvae Performance <i>T. Gogou, R. Nakirya, P. Soulioti, E. Valli, C. Rumbos, M. Capucchio, C. Athanassiou</i>	957
11:15 Valorizing Apple and Olive Pomaces: How Density and Substrate Shape Hermetia illucens Larval Performance <i>P. Soulioti, T. I. Gogou, R. H. Nakirya, E. Valli, C. I. Rumbos, M. T. Capucchio, C. G. Athanassiou</i>	958
11:30 Insects Commission meeting (with elections and discussion on next years' program)	
12:30 End of session	

Poster Session 56	Book of Abstracts page
56.1 The effect of the growth substrate on the content of essential amino acids in Hermetia illucens larvae <i>M. Matvieiev, V. Dzhus, I. Doroshenko, O. Borshch, V. Lykhach, A. Getya</i>	959
56.2 Dietary fat sources modulate growth performance and lipid composition of black soldier fly (Hermetia illucens) larvae <i>L. Schneider, N. Stoehr, G. Dusel</i>	960
56.3 Trentinsect: insects and sustainability in feed production <i>A. Resconi, M. Baker Ala Eddine, G. Benassi, S. Dabbou</i>	961
56.4 Use of ergot (Claviceps purpurea) - contaminated rye in the rearing of black soldier fly (Hermetia illucens) larvae <i>N. Stöhr, L. Schneider, K. Schuh -Von Graevenitz, W. Markert, T. Priesmann, G. Dusel</i>	962

Session 56.1. Poultry Commission meeting

Room: Room 11
Commission(s): Poultry
Session Type: Theme session

Theatre Session 56.1	Book of Abstracts page
11:30 Poultry Commission meeting (with elections and discussion on next years' program)	
12:30 End of session	

Session 57. Optimizing inclusion of novel traits into existing breeding goals

Room: Room Z
Commission(s): Genetics
Chair(s): Kargo, Strucken
Session Type: Theme session

Theatre Session 57	Book of Abstracts page
14:15 Methodological approach for multi-trait information pooling into single-trait using deregression: a study case on boar taint <i>A. Markey, N. Gengler</i>	963
14:30 Selection for birth weight uniformity and its effects on subsequent weights in SRC Iberian pigs <i>I. Cervantes, N. Formoso-Rafferty, F. Sánchez-Esquiliche, L. Ramírez, M. Muñoz, J. M. García-Casco, J. P. Gutiérrez</i>	964
14:45 Potential to increase additive genetic variance in pigs by changing crossover count <i>O. Katz, Y. C. J. Wientjes, A. C. M. Jansen, M. P. L. Calus</i>	965
15:00 Heritability and Genetic Correlations of Crossover Count in Two Commercial Pig Lines <i>A. C. Jansen, O. Katz, M. P. Calus, T. Druet, A. Boshove, Y. C. Wientjes</i>	966
15:15 Methods for joint genetic prediction of multiple ordinal categorical and continuous traits <i>M. Bermann, A. Legarra, A. Alvarez Munera, I. Misztal, D. Lourenco</i>	967
15:30 xyBnG.jl: A Julia package for scalable, GPU-accelerated stochastic simulation of complex national livestock breeding schemes <i>X. Yu, L. Cao, J. Jakobsen, G. Difford, P. Berg, B. Åby</i>	968

15:45 Coffee Break	
16:15 EVOGEN: A novel tool for large-scale simulation and optimization of breeding programs <i>V. Milkevych, A. Bouquet, H. Liu, B. Grove Poulsen, M. Sandø Lund</i>	969
16:30 Beekeepers' preferences for breeding goals: how can the results from a French on-line survey feed the design of relevant breeding programs? <i>T. Kistler, B. Basso, A. Lauvie, F. Phocas</i>	970
16:45 Deriving cow methane traits and their genetic relationships with feed intake, energy balance and nitrogen utilisation efficiency <i>M. Stassen, K. Brügemann, C. Grelet, M. Calusinska, S. König</i>	971
17:00 Statistical and genetic analysis of udder conformation traits recorded by automatic milking systems in Fleckvieh cows <i>S. Hosseini, B. Zumbach, T. Shabalina, R. Emmerling, J. Ertl, A. R. Sharifi</i>	972
17:15 Development of a new recording scheme for calf-health related traits <i>B. Fuerst-Waltl, C. Fuerst, C. Rehling, C. Egger-Danner, K. Linke</i>	973
17:30 Genome-Wide Association Study of Navel Length at Weaning in Brangus Cattle <i>T. De Melo, D. De Oliveira, S. Rocha, S. Lazaro, H. De Oliveira</i>	974
17:45 Phenotyping strategies to enhance genetic gain for animal health and welfare in dairy cattle – from the past to future perspectives <i>C. Eggerdanner, A. Köck, C. Fürst, H. Schwarzenbacher, K. Schodl, J. Himmelbauer, B. Fürst-Waltl</i>	975
18:00 End of session	

Poster Session 57		Book of Abstracts page
57.1	An impact of including methane emission into the Polish Holstein-Friesian cattle breeding program <i>G. Cieleń, M. Pszczola, L. Büttgen</i>	976
57.2	Genetic background of Navel Length in Brangus Cattle <i>T. De Melo, D. De Oliveira, S. Rocha, S. Lazaro, H. De Oliveira</i>	977
57.3	Genome-Wide Association Study for Hair Coat Score in Brangus Cattle <i>D. De Oliveira, S. Rocha, S. Lazaro, H. De Oliveira, T. Melo</i>	978
57.4	Genomic evaluation of weaning coat score in Brangus cattle using BLUP and ssGBLUP <i>D. De Oliveira, S. Rocha, S. Lazaro, H. De Oliveira, T. De Melo</i>	979

Session 58. From Phenomics to Practice: Phenomics, Interoperability, High dimensional data processing and On-Farm Decisions

Room: Room X6
Commission(s): Genetics, Precision Livestock Farming
Chair(s): Kaya, Schiavo
Session Type: Project session

Theatre Session 58		Book of Abstracts page
14:15	Supporting dairy cows breeding practices using historical fertility data and MIR spectra : a deep learning approach <i>T. Przybylski, C. Grelet, L. Dale, Y. Ben Mohamed, J. Leblois, H. Soyeurt, F. Dehareng</i>	980
14:30	GEDA: A novel software for automated processing of sniffer-based gas emission measurements <i>L. Ashayeri, S. Annadatha, R. B. Stephansen, T. M. Villumsen, N. Saedi, M. S. Lund, V. Milkevych</i>	981
14:45	Should she stay or should she go now? Ranking of cull cows based on Net Present Value implemented in Dairy Management Software <i>B. Hoejlund Nielsen, L. A. Hjort Nielsen, N. H. Schneider Nielsen, J. Ettema, S. Oestergaard</i>	982
15:00	High-throughput video phenotyping of sow activity around farrowing and its association with piglet mortality983 <i>A. Poublan-Couzardot, T. Cochou, F. Laperruque, W. Hébrard, M. Bonneau, L. Canario</i>	
15:15	Seasonal adaptation is associated with systemic metabolic remodelling in heavy pigs: a molecular phenomic approach <i>S. Agyabeng, S. Bovo, M. Gallo, G. Schiavo, L. Fontanesi, F. Bertolini</i>	984
15:30	Comparison of classification models to estimate lifetime productivity of Murciano-Granadina goats from first-lactation records <i>M. P. Torralbo-Muñoz, Á. Sevilla-Molina, M. J. García-García, E. Padrón-Tejera, F. Maroto-Molina, D. Guijo-Rubio, P. A. Gutiérrez-Peña, J. Fernández-Álvarez</i>	985
15:45	Coffee break	
16:15	Is gut microbiome information to be considered as part of the animal phenomic realm? <i>F. Tiezzi, C. Maltecca</i>	986
16:30	Exploring European Family Farmers’ Attitudes Towards Big Data Tools <i>E. Eriksson, D. K. Mcgrath</i>	987
16:45	Use of new digital and "omics" technologies data in animal breeding: opportunities and issues <i>J. P. Bidanel, F. Laperruque, Y. Billon, C. Bertrand, M. H. Pinard-Van Der Laan</i>	988
17:00	Economics of smart livestock farming technologies – Current costs and benefits and the need for more harmonised estimation approaches <i>J. K. Niemi, Y. Fu, M. Pastell, A. Stygar</i>	989
17:15	Stakeholder Role Differences in the Use of Precision Livestock Farming Technologies in Europe <i>C. Gao, D. Liu, Ç. Y. Kaya, S. Orlandini, M. Ryyänen, J. Marchewka, J. Niemi, A. Tolmačev, E. Eriksson, D. Čenejac, T. Norton</i>	990
17:30	Connecting the Dots: Interoperability from Regulation to Practice <i>C. Y. Kaya, J. Niemi, H. Kayhan</i>	991
18:00	End of session	

Session 59. Regional Pathways of Dairy Development: Productivity, Sustainability and Climate-Smart Innovation

Room: Room X7-9
Commission(s): Cattle
Chair(s): Cieslak, Montanholi, Kuipers
Session Type: Theme session

Theatre Session 59		Book of Abstracts page
14:15	<i>Invited</i> Development of Sustainable Dairy Production in Germany - learnings from the "Dairy Sustainability Tool" project <i>K. Agethen, H. Kuhnert, B. Lassen, T. Lindena, A. Raschel, H. Nieberg</i>	992
14:45	<i>Invited</i> Outlook of a dairy farmer from Northern Germany: Strategies for resilient milk production <i>J. Riecken, R. Loges</i>	993
15:15	<i>Invited</i> Key developments and scientific focus fields in European dairy farming systems <i>G. Van Duinkerken</i>	994
15:45	Coffee Break	
16:15	Which livestock systems best address both food insecurity and climate change? Comparing cattle, pig, poultry, rabbit, and snail systems in Cameroon. <i>L. Germer, M. Moleman, J. Tabot, C. Van Middelaar, S. Oosting, E. Kingsley, P. Gerber</i>	995
16:30	<i>Invited</i> Current developments in the dairy sector in the USA <i>A. De Vries</i>	996
17:00	CO2 tax and N-legislation constrain Danish dairy production <i>N. I. Nielsen</i>	997
17:15	Regenerative agriculture as an evolving concept: emergent practices and farmer decision-making in Dutch dairy farming <i>J. Threels, E. Bokkers, E. De Olde</i>	998
17:30	<i>Invited</i> Producer Mental Health and Wellbeing as a Critical Component of a Resilient and Sustainable Agricultural System: Insights from Canada <i>H. Watson</i>	999
18:00	End of session	
Poster Session 59		Book of Abstracts page
59.1	Milk Quality Driven by Training Programs and Technical Support in Small and Medium Scale Dairy Farms <i>L. C. Roma Junior, L. El Faro, M. Perissinotto, W. V. B. Soares</i>	1000
59.2	Examination and comparison of measured and scored body conformation traits of German Holstein cows in 2015 and 2025 <i>M. Rozing, D. Warder, F. Rosner, H. Scholz, A. Braune, C. Schmidtman, M. Wensch-Dorendorf</i>	1001
59.3	Evaluating greenhouse gas emissions of different breeding sheep pilot farm in Latvia <i>D. Ruska, L. Berzina, D. Kairisa, D. Barzdina, L. Paura</i>	1002
59.4	Environmental Sustainability as a Dimension of Sheep and Goat Product Valorization: Preliminary Results from a Carbon Footprint Study of Greek Cheeses <i>A. Smeou, M. Koureas, A. Manouras, I. Boziaris, E. Malissiova</i>	1003

Session 60. Animal microbiomes - moving forward from taxonomic to functional information - in conjunction with the Horizon 2020 Holoruminant project - Part 2

Room: Room X4-5
Commission(s): Physiology
Chair(s): Seifert, Kenny
Session Type: Theme session

Theatre Session 60	Book of Abstracts page
14:15 <i>Invited</i> Translational rumen microbiome research to improve cattle production sustainability <i>L. Guan</i>	1004
14:45 Genome-wide analysis indicates host genetic control of ruminal microbial traits in Holstein cows <i>I. T. Vourlaki, O. Furman, L. R. Porto-Neto, I. Tapio, D. Fischer, L. L. Guan, S. M. Waters, P. B. Pope, D. P. Morgavi, A. Reverter, I. Mizrahi, Y. Ramayo-Caldas</i>	1005
15:00 Host genomic influence on Gut microbiome diversity and composition in Atlantic salmon during Saltwater production phase. <i>E. O. Odah, H. Dvergedal, J. Ødegård, G. Klemmetsdal, A. Vera Ponce De Leon, S. R. Sandve, L. Hall, G. F. Difford</i>	1006
15:15 CowPi 2: Enhanced functional inference from rumen microbiome 16S rRNA data using a comprehensive genome database <i>C. Creevey, J. P. Wilkins, L. Dillon, N. Dimonaco, K. Lawther</i>	1007
15:30 An Expanded Isolate and Genome Collection of Rumen Bacteria Reveals Microbial Signatures of Feed Efficiency in Cattle <i>L. Scott, A. Z. Rahman, A. Alizadeh, L. L. Guan, T. A. Mcallister, H. Derakhshani</i>	1008
15:45 Coffee Break	
16:15 Persistent Auxiliary Microbiome of Early Colonizers Shapes the Developing Rumen Ecosystem <i>O. Furman, I. Mizrahi</i>	1009
16:30 Effect of birth delivery method on microbial colonisation of key gastrointestinal regions in neonatal beef calves <i>M. M. Stafford, P. E. Smith, S. Waters, E. O'Hara, F. Buckley, D. A. Kenny</i>	1010
16:45 Impact of pastures composition on calves microbiota in saliva, rumen and feces <i>C. Lauer-Weich, G. Mesbahi, F. Leiber, J. Werner, J. Seifert</i>	1011
17:00 Multi-block sPLS-DA Shows That Plasma Metabolomics Most Accurately Classifies Piglets Across Production Chains than fecal metabolomics and metagenomics <i>F. Correa, D. Luise, P. Trevisi</i>	1012
17:15 Genome-Resolved Profiling of an Expanded Swine Gut Isolate Collection Reveals Functional Signatures of Health and Disease <i>A. S. M. Z. Rahman, F. M. Loojaly, S. Walkowiak, C. Yang, H. Derakhshani</i>	1013
17:30 Characterization of the core porcine microbiota across production phases, animal tissues and genetic lines in an integrated production system <i>G. De La Fuente Oliver, A. Morillo, P. Fernandez, L. Escudero, D. Villalba</i>	1014
17:45 Variability of vaccine responses in laying hens: assessing the holobiont <i>A. Racanati, T. Tribout, L. Brulin, A. A. M. Sabuj, F. Blanc, A. Lecoeur, S. Brard-Fudulea, N. Bruneau, D. Gourichon, B. C. D. Cuyabano, T. Burlot, L. Becot, D. Schokker, M. Calus, M. H. Pinard-Van Der Laan, F. Calenge</i>	1015
18:00 End of session	
Poster Session 60	Book of Abstracts page
60.1 Microbiota dynamics and core taxa in milk, teat skin, and feces of cows with and without mastitis <i>I. Tapio</i>	1016
60.2 Rumen colonization and succession of microbial guilds during lamb development is affected by the presence of the dam <i>L. Volland, P. Dou, J. Tournayre, A. Ortiz-Chura, A. Dehornoy, D. Graviou, K. Vazeille, D. Morgavi, M. Popova</i>	1017
60.3 Associations between rumen and faecal microbiota and inflammatory status in transition dairy cows <i>J. Jeyanathan, S. Heirbaut, M. Zhang, K. Hertogs, E. Stevens, B. Aernouts, L. Vandaele, V. Fievez</i>	1018
60.4 The effect of fat type and inclusion level on the rumen microbiome and methane in dairy cows <i>S. J. Noel, P. Lund, A. A. Schönerherz, M. R. Weisbjerg, G. Giagnoni</i>	1019
60.5 Effects of Heat Stress on gut microbiota in Iberian and crossbred pigs <i>L. Sarri, J. Balcells, E. Labussiere, A. R. Seradj, G. De La Fuente Oliver</i>	1020

Session 61. Next generation nutrition solutions for poultry

Room: Room X2-3
Commission(s): Nutrition, Poultry
Chair(s): Kreuzer-Redmer, Camarinha Silva, Lambert
Session Type: Theme session

Theatre Session 61	Book of Abstracts page
14:15 <i>Invited</i> Utilization of free amino acids in broiler chickens revisited <i>W. Siegert</i>	1021
14:45 Effects of controlled lactic acid bacteria fermentation on physicochemical properties of rye and wheat grains <i>S. Salehi, M. F. E. Ahmed, A. Godglück, J. Gickel, A. Abd El-Wahab, A. Von Felde, C. Visscher, C. B. Arnold</i>	1022
15:00 Impact of dietary Foeniculum vulgare Mill. on the growth performance of broiler chickens: Insights from a meta-analysis <i>C. F. Egbu, C. J. Smit</i>	1023
15:15 Effects of dietary Saccharomyces cerevisiae-derived postbiotic on growth performance, intestinal morphology, serum biochemistry, hepatic metabolome and mineral deposition in broiler chickens <i>T. Alkaabi, S. Almansoori, W. Alkaabi, O. Alsheblak, A. El Awad, R. Seboussi, M. Abdelmegeid, M. Mohamadin, M. Shukry, I. Yoon, A. Elolimy</i>	1024
15:30 Multigenerational effects of in ovo synbiotic and choline supplementation on gut microbiota diversity and composition in broiler chickens <i>K. Stadnicka, J. Gawor, T. Aleksandrak-Piekarczyk, E. Grochowska</i>	1025
15:45 Coffee Break	
16:15 <i>Invited</i> Low protein diets in broilers chickens: insight from a holistic evaluation <i>T. De Rauglaudre</i>	1026
16:45 Comparative effects of a multi-carbohydrase and single xylanase supplementation on broiler performance and environmental impacts <i>C. Gras, S. Salami</i>	1027
17:00 Multi-carbohydrase and bacterial 6-phytase co-supplementation improves performance, nutrient digestibility and feed cost efficiency in broilers fed nutrient-reduced corn-soybean meal diets <i>S. Salami, H. Yakout</i>	1028
17:15 Phytogetic dietary inclusion level modulates key performance indicators and meat quality biomarkers in heat-challenged broilers <i>I. Brouklogiannis, E. Iliopoulou, E. Misirli, A. Kouvatou, G. Kefalas, K. C. Mountzouris</i>	1029
17:30 Effect of black soldier fly larvae oil and feed withdrawal on productive performance in broiler chicken subjected to cyclic heat stress during the final growth period <i>M. K. Atehortua, A. J. Maldonado, F. Sevilano, A. I. Rey, M. A. Ibáñez, D. Menoyo</i>	1030
17:45 Effect of Marine mineral complex on skeletal mineral deposition and liver health in aging laying hens <i>O. A. Demehin, M. A. Bouwhuis, K. Kozłowski, A. Van Vilsteren, S. O'connell</i>	1031
18:00 End of session	
Poster Session 61	Book of Abstracts page
61.1 Assessing Selenium Source Bioavailability via Excretion Patterns in Broiler Feces <i>S. Poulain, E. Chevaux, L. Vigier, Y. Le Treut, A. Sacy</i>	1032
61.2 Embryonic stage-dependent effect of in ovo synbiotic administration at day 12 vs. day 18- implications for immunocompetence conditioning <i>K. Stadnicka, C. Randazzo, K. Guinan, K. Skowron, K. Grudlewska-Buda, J. T. O'Sullivan, J. Bogucka</i>	1033
61.3 Lipid structure and energy utilization in high-performance broiler diets: impacts on performance, carcass traits and oxidative status <i>R. Schemmer, C. Heidemann, H. Rashid, R. Puntigam</i>	1034
61.4 Enhancing broiler chickens' performance through synergistic citrus extract prebiotic and probiotic supplementation <i>S. Cisse, A. Mansour, C. Maltret, M. E. A. Benarbia</i>	1035
61.5 Evaluation of protected sodium butyrate supplementation to optimize gut health biomarkers in broiler chickens <i>A. Kihal, A. Y. Alhady, A. Radwan, M. Puyalto, J. J. Mallo</i>	1036

61.6	Effects of Dietary Energy Levels During the Growing and Early-Laying Periods on Late-Laying Performance, Egg Quality, and Organ Characteristics in Laying Hens	1037
	<i>J. Hong, H. Kim, Y. Kim, E. C. Hong, C. Lim, H. J. Kim, M. Yu, H. K. Kim, D. Lee</i>	

Session 62. Feeding, grazing and housing management to lower nitrogen and methane emission pressure to the environment

Room: Room X10
Commission(s): Cattle, Nutrition
Chair(s): Dohme-Meier, Cieslak
Session Type: Theme session

Theatre Session 62		Book of Abstracts page
14:15	<i>Invited</i> Climate protection and food security: antagonists or synergists in grassland-based production? <i>F. Leiber</i>	1038
14:45	Enhancing MIR-based methane prediction through systematic integration of cow- and farm-level information <i>C. Matzhold, A. Köck, S. J. Burn, K. Linke, C. Schmid, M. Mayerhofer, C. Egger-Danner</i>	1039
15:00	Methane emission and feeding behavior of dairy cows grazing versus indoor feeding with silage <i>D. W. Olijhoek, N. P. Hansen, M. R. Weisbjerg, M. Maigaard, P. Lund, M. Larsen</i>	1040
15:15	Comparison of two approaches for quantifying methane emissions at housing or individual animal level <i>K. Orquera-Arguero, M. Zöhner, F. Dohme-Meier, G. Lazzari, S. Schrade</i>	1041
15:30	Diurnal profiles of methane emission in response to feed intake patterns of cattle: Implications for GreenFeed measurement sampling schemes <i>H. J. Van Lingen, U. Arshad, M. Niu, J. L. Ellis</i>	1042
15:45	Coffee Break	
16:15	Projecting threshold of annual non-fossil methane emissions at which the atmospheric methane burden equals methane removal <i>Ž. Pečnik, J. Verbič</i>	1043
16:30	Variation in N and P excretion in manure from dairy farms <i>C. F. Børsting, A. L. F. Hellwing, M. J. Brask, P. Kai, H. Martinussen, A. M. Kjeldsen</i>	1044
16:45	Feeding strategies to reduce dietary crude protein levels and ammonia emissions on dairy farms <i>M. Moleman, A. M. Smid, P. Galama, T. Wind, M. De Haan, M. J. Paulo, S. K. Schnabel</i>	1045
17:00	Long-term effects of reduced dietary protein supply in lactating dairy cows <i>T. Michou, M. R. Weisbjerg, M. Larsen, S. E. Räisänen</i>	1046
17:15	Quantitative meta-analysis on the effects of manipulating rumen degradable protein balance by changing protein degradability on fat and protein corrected milk in Holstein dairy cows <i>E. Parand, H. Van Laar</i>	1047
17:30	Impact of diet optimisation on diet carbon footprint intensity and productive performance of lactating dairy cows <i>R. Schmith, R. Tonucci, M. M. Campos, J. P. Matiello, M. A. C. Danes, J. P. P. Rodrigues, A. Rytz, C. Powell, J. B. Daniel, A. B. P. Fontoura, M. E. Van Amburgh, R. Rauch</i>	1048
17:45	Grazing, feeding, manure and air management for dealing with environmental impacts of intensive dairy farming <i>A. Kuipers, P. Galama</i>	1049
18:00	End of session	
Poster Session 62		Book of Abstracts page
62.1	Farm level analysis of on-farm monitoring of methane from dairy cows and relationship to farm characteristics and farm level climate accounts <i>K. Horsted, L. Sembach, G. Giagnoni, P. Lund, T. M. Villumsen, H. Schneider, A. M. Kjeldsen, L. Mogensen</i>	1050
62.2	Carbon farming potential of Mediterranean cow-calf systems under different cultivation intensities <i>M. F. Lunesu, S. Sechi, F. Correddu, S. Carta, S. P. G. Rassu, G. Pulina, G. Battacone, A. Nudda</i>	1051

62.3	Seasonal variation in enteric methane emissions and production efficiency metrics in a higher-output Irish pasture based dairy system including concentrates with differing levels of crude protein. <i>F. Monaghan, K. M. Mccarthy, K. M. Pierce, Z. C. Mckay, Y. Kavanagh, N. Dooley, F. J. Mulligan</i>	1052
62.4	Environmental impact of pasture turnout strategies in dairy cows grazing timothy-meadow fescue pasture <i>G. Mantovani, M. Vadronova, M. Ramin, P. Fant</i>	1053
62.5	Forage type and lipid-rich concentrates as practical levers to mitigate enteric methane in fattened lambs: links to rumen fermentation and methanogenic microbiota <i>J. Łodyga, B. Borys, E. Wawrzyniak, W. Warguła, M. Szott, S. Olorunlowu, A. Cieślak</i>	1054
62.6	Evaluation of dibromomethane as an anti-methanogenic feed additive for dairy cows in a dose-response study <i>M. Thorsteinsson, A. L. F. Hellwing, P. Lund, M. R. Weisbjerg</i>	1055
62.7	Grape stem inclusion in the diet of fattening young bulls reduced methane emissions <i>D. Villalba, I. Casasús, M. Joy, S. Lobón, M. Blanco</i>	1056
62.8	Impact of sainfoin (<i>Onobrychis viciifolia</i>) inclusion in beef fattening diets on methane emissions <i>D. Villalba, E. Molina, I. Casasús, M. Joy, M. Blanco</i>	1057
62.9	Optimizing fattening duration in Hanwoo steers: Impacts on growth performance, enteric methane emissions, feed efficiency, and rumen microbial communities <i>J. I. Berdos, K. S. Dhia, M. Miguel, M. N. Aprilliza Am, S. Begum, Y. P. Naing, A. R. Son, K. S. Baik, K. C. Nam, S. H. Kim, S. S. Lee</i>	1058
62.10	Isotope patterns in fiber fractions of grass samples with high variability in nitrogen content <i>T. M. Liegsalz, T. Hofmiller, J. Kurek, C. Ostendorf, R. Schäufele, G. P. Bienert, S. Muetzel, S. Colombini, F. Giudice, L. Rapetti, J. Steinhoff-Wagner</i>	1059
62.11	Use of essential oils on enteric methane emissions and ruminal microbiota of finishing feedlot Nellore cattle <i>M. Dalafini, M. Marques, E. Furlan Junior, C. Franzon, J. Michelini, F. Oristanio, E. Magnani, R. De Freitas, L. Drouet, R. Dari, T. Da Silva, R. H. Branco</i>	1060
62.12	Effects of condensed tannin extract supplementation on performance, carcass traits, and methane emissions of feedlot cattle fed diets with different protein profiles <i>R. V. Ribeiro, O. L. Rigobello, W. R. Meireles, I. A. Dornellas, I. M. C. Tarôco, M. M. Silva, I. M. Ferreira, J. D. Messana, R. A. Reis</i>	1061
62.13	Does a combination between protein reduction and yeast probiotic in the diet of dairy cow impact feed efficiency, nitrogen use, digestibility and rumen microbial protein synthesis? <i>N. Salah, B. Gestes, P. Ly, K. Hadjeba, J. Schulthes, J. Duclos, E. Pinloche, M. Mayer</i>	1062
62.14	Testing coated calcium peroxide for methane mitigation in dual-flow fermenters <i>A. Hall, S. Mills, V. O'Flaherty</i>	1063
62.15	Nitrogen balance and nitrogen use efficiency in extensive Charolais beef cattle systems facing nitrate water pollution risk <i>R. Ibidhi, M. Ubertosi, A. Cavillon, A. Tanda, P. Rolland-Muquet, Y. Moulin</i>	1064
62.16	The environmental impact of dairy cattle farming using Life Cycle Assessment: a meta-analysis <i>V. Thymis, D. Kantas, A. Foskolos</i>	1065
62.17	Modeling carbon cycle from dairy cows, barn, and storage <i>M. Brask, S. Lashkari, F. R. Dalby, C. F. Børsting</i>	1066
62.18	Temperature-driven seasonal variation of soil CO ₂ and N ₂ O emissions under rotational and continuous grazing in a Mediterranean grassland <i>D. Sarkar, G. Bernabucci, C. Rossi, G. Grossi, C. Evangelista, R. Primi, N. Lacetera, A. Vitali</i>	1067
62.19	Mitigating emissions from manure: The effectiveness of biochar under real dairy farm conditions <i>K. Kaikiti, K. Philippou, A. Phokas, P. Pissaridou, C. Hadjimichael, J. Rhodosthenous, A. Rossis, A. Houvarta, D. Sparaggis, M. Omirou</i>	1068
62.20	Effect of ventilation regimes on carbon and nitrogen dynamics in composted bedded packs for Mediterranean dairy cattle production <i>X. Díaz De Otálora, B. Fajardo, C. Cano, T. Monreal, A. Villagrà, F. Estellés</i>	1069
62.21	Interaction between protein source and condensed tannin extract on nitrogen metabolism in feedlot cattle <i>R. V. Ribeiro, P. S. Marchiori, I. A. Dornellas, M. A. D. O. Castro, A. M. Kirchhoff, J. V. D. P. Germano, P. A. A. Fredes, I. M. Ferreira, J. D. Messana, R. A. Reis</i>	1070
62.22	Low crude protein diet balanced for metabolizable methionine positively impacts performance, metabolic status and N emissions in high-yielding dairy cows <i>A. Vigh, M. Müller, V. V. Thierer, J. Guyader</i>	1071

Session 63. Climate-smart livestock systems - holistic approaches to adaptation and mitigation to deliver global protein needs

Room: Room Y8-9
Commission(s): Livestock Farming System
Chair(s): Rivero, Mantino
Session Type: Theme session

Theatre Session 63		Book of Abstracts page
14:15	<i>Invited</i> Multifunctional utilisation of dual-purpose cropping for pasture, forage & grain <i>M. Hetta, L. Post, G. Carlsson, G. Bergkvist, E. Ekholm, V. Picasso, S. Delin, D. Parsons</i>	1072
14:45	Innovation in the U.S. Beef Value Chain: A Sustainable Beef Research Roadmap <i>S. J. Werth, G. D. Vehige, S. Place, L. R. Thompson, T. N. Rowan, D. J. Goodwin, J. E. Rowntree, P. L. Stanley, S. T. Metzger, K. L. Wagner</i>	1073
15:00	Optimal deployment of genetic innovation is essential to increasing the productivity and sustainability of global cattle production systems <i>M. A. Cleveland, E. Lai</i>	1074
15:15	Synergistic modulation of ruminal kinetics and metabolic efficiency by Lithothamnium calcareum and oregano extract: A holistic framework for sustainable bovine production <i>J. Pena, G. Mañas, X. Rodriguez</i>	1075
15:30	Environmental, economic, and technical performance of goat farming systems compared to cattle and sheep systems: A systematic review and meta-analysis across climatic regions <i>J. J. Minviel, S. Souissi</i>	1076
15:45 Coffee Break		
16:15	Sustainable ruminant livestock transformation through the Global Farm Platform: The hub-and-spoke network <i>J. Rivero, M. Lee</i>	1077
16:30	Grazing management intensification increases pasture height and carrying capacity in native grassland livestock systems: early results from a long-term farmlet experiment <i>F. Montossi, T. Devincenzi, V. Porcile, J. Martin</i>	1078
16:45	Summer-smart strategies for livestock production in temperate zones: impact of shade on performance of grazing cattle <i>P. Rovira</i>	1079
17:00	Dairy Soil and Water Regeneration Research: Filling Crucial Data Gaps <i>D. Busch</i>	1080
17:15	Differential sensitivity of milk protein and milk yield to heat stress load in a robotic pasture-based dairy system <i>F. Ahmadi, F. Dunshea</i>	1081
17:30	End of session	
Poster Session 63		Book of Abstracts page
63.1	Summer-smart strategies for livestock production in temperate zones: supplementation of grazing cattle <i>M. Verdaguer, P. Rovira</i>	1082
63.2	Fifty years of progress for beef cattle production in the United States <i>C. A. Rotz, J. Castano-Sanchez, D. Kniffen, M. Buyers, S. J. Werth</i>	1083
63.3	Climate change and thermal stress in cattle: Global projections with high temporal resolution <i>M. Neira, P. Georgiades, Y. Proestos, T. Economou, J. Araya, S. Malas, M. Omirou, D. Sparaggis, G. Hadjipavlou, J. Lelieveld</i>	1084
63.4	Fans, sprinklers, or what else? Understanding Swedish farmers' experiences with cooling strategies <i>K. Berggren, L. M. Tamminen, N. Högberg, R. Båge, G. Olmos Antillón</i>	1085
63.5	Aligning research gaps and innovation demands for ecosystem services in South American pasture-based livestock systems <i>F. Montossi</i>	1086
63.6	Effect of reproductive status on goat methane emissions <i>M. Moradi, A. Beasley, L. C. Hoffman, S. J. Meale</i>	1087
63.7	Needs and Capacity building of advisors to support transitions towards climate-smart farming systems <i>F. Bedoin, C. Evrat-Georgel</i>	1088
63.8	Integrating thermal load and metabolic indicators to support climate smart management decisions in dairy herds <i>Z. Vassilev, L. M. Dale, J. Bieger, A. Al Baqain, E. J. Strang, C. Eck, S. Weidmann, S. Fritsch</i>	1089

Session 64. Efficiency and mitigating emissions in pig production – strategies to reduce nitrogen and phosphorus losses, including amino acid nutrition - Part 2

Room: Room Y4
Commission(s): Pig, Nutrition
Chair(s): Girard, Lawlor, Chalvon Demersay
Session Type: Theme session

Theatre Session 64		Book of Abstracts page
14:15	Effects of dietary supplementation with a novel marine algae–derived prebiotic feed additive (MAFA) on growth performance, gaseous emissions and manure characteristics from a commercial finishing pig facility <i>I. M. Aroh, G. Mccutcheon, R. Kuneš, S. Conolly, E. G. Manzanilla, T. P. Curran, L. Clarke</i>	1090
14:30	Impact of dietary calcium and phytase on mineral digestibility and skeletal mineral accumulation in growing pigs. <i>J. Labarre, P. Schlegel, P. Schmidely, T. D. Crenshaw, D. Bueno Dalto, M. Jlali, A. Narcy, M. P. Létourneau-Montminy</i>	1091
14:45	Nutritional Strategies to Enhance Phosphorus Utilization Efficiency in Pigs <i>N. Coquil, M. P. Létourneau-Montminy</i>	1092
15:00	Valorization of native trace minerals in alternative feed ingredients for sustainable pig production <i>Y. J. Manaig, C. De Cuyper, A. Rigo Monteiro, S. Durosoy, S. Millet</i>	1093
15:15	Terrestrial ecotoxicity and phosphorus excretion are reduced by increasing phytase and reducing nutrient concentrations in growing pig diets <i>G. Mota, B. Taynah, M. Souza, W. Sardi, G. Araújo, T. Cabral, B. Oliveira, R. Nunes, P. Pozza</i>	1094
15:30	Comparative Analysis of Three Approaches for Estimating Phosphorus Retention in Growing Pigs: Implications for Phosphorus Excretion Estimates <i>K. R. Aklidakou, L. Cappelaere, F. Garcia-Launay, M. P. Létourneau-Montminy</i>	1095
15:45 Coffee Break		
16:15	Pig gut microbiome functional genes associated with protein metabolism along the gastrointestinal tract <i>D. Lee, N. Sarpong, J. Seifert, A. Camarinha-Silva</i>	1096
16:30	Transcriptomic signatures of nitrogen use efficiency in liver and muscle of Swiss Large White pigs under protein-restricted feeding <i>B. Monney, C. Kasper</i>	1097
16:45	Phenotypes for implementing proxies of mineral utilisation and bone turnover in pig breeding <i>A. K. Solomon, M. Oster, H. Reyer, M. Scheeder, M. Leible, J. Massmann, K. Wimmers</i>	1098
17:00	A mechanistic model to simulate the digestive fate of calcium and its interaction with phytate and phytase in growing pigs. <i>J. Labarre, P. Schmidely, A. Narcy, M. Jlali, P. Schlegel, C. Loncke, M. P. Létourneau-Montminy</i>	1099
17:15	<i>Invited</i> Meta-analysis of urinary calcium and phosphorus excretion as predictors of mineral status and dietary imbalances in growing pigs <i>P. Floradin, M. P. Létourneau-Montminy</i>	1100
17:45	Discussion	
18:00	End of session	

Session 65. Animal welfare free communications

Room: Room Y3
Commission(s): Health and Welfare, Sheep and Goat, Pig, Genetics
Chair(s): Trocino, Almeida
Session Type: Challenge session

Theatre Session 65		Book of Abstracts page
14:15	Health and management of unweaned calves on conventional and regenerative dairy farms <i>E. Bokkers, J. Threels, F. Braakhuis, E. De Olde</i>	1101
14:30	Implications of birth order on piglet survival <i>R. Muns, C. Mulvenna</i>	1102

14:45	Risk factors in fattening rabbit housing: The role of animal density and bedding <i>S. Cazzato, S. Gebhardt-Henrich, H. Würbel, D. Wiederkehr, J. Schwarz</i>	1103
15:00	Effect of group housing on behaviour and welfare of rabbit does in Mediterranean farming conditions <i>C. L. Manuelian, K. Guirradi, A. Torra, A. A. K. Salama, X. Such, J. L. Ruiz De La Torre, C. Casas, F. X. Mora</i>	1104
15:15	Effects of housing and management strategies on productivity and welfare of young rabbit does <i>M. Molin, F. Bordignon, M. Pravato, A. Zuffellato, A. Trocino, G. Xiccato</i>	1105
15:30	Acute ammonia concentration peaks present a delayed effect on reproductive and productive performance of rabbit does <i>A. Villagrà García, S. Calvet Sanz, J. Sahuquillo, F. Estelles Barber</i>	1106
15:45	Coffee Break	
16:15	Selected best practices for improving on farm welfare of rabbits: interrelationships with sustainability pillars <i>C. Tolini, A. Miolo, S. Rota Nodari, Z. Sudiak, G. Aubin-Houzelstein, F. Bordignon, M. C. Ceballos, E. Fàbrega, G. Xiccato, F. Fusi, A. Trocino</i>	1107
16:30	On-farm hatching in broiler production: Field experiences with slow- and fast-growing genotypes in Germany <i>B. Spindler, S. C. M. Vossler, S. Schäfers, J. Heck, M. C. Bosello, E. Rauch, H. Louton, P. Hiller, F. Dietzel, N. Kemper, A. Schwarz</i>	1108
16:45	Minimal evidence for locomotor imitation in pullets: Insights from a ramp vs. jump two-action procedure <i>K. Walsh, L. Nicklas, B. Tobalske, E. Planchon, N. Van Staaveren, D. Powers, T. Widowski, B. Willie, A. Harlander</i>	1109
17:00	Opinion of the FRCAW on the impacts of loading density on fall and injury risks in cattle and pigs, and on piling-up behaviour and injury risks in poultry <i>C. Bezançon, L. Kremer, V. Colson, A. L. Dauphiné-Morer, A. Tiret, Frcaw Panel Of Experts, G. Aubin-Houzelstein</i>	1110
17:15	Catching and loading of end-of-lay laying hens: effects of body position on endocrine and respiratory stress responses <i>L. Jung, A. Schwarz, C. Touma, T. Wolf, N. Kemper, B. Spindler</i>	1111
17:30	Comparative assessment of euthanasia methods for RNA integrity in rainbow trout (Oncorhynchus mykiss) larvae <i>I. Kilic, S. Rosenau, A. C. Mott, S. Zeidler, F. J. Gentz, J. Tetens</i>	1112
17:45	End of session	

Poster Session 65		Book of Abstracts page
65.1	Do stray currents impact the behavior, health and performance of dairy cattle? The farmer's perspective <i>C. Gazaix, F. Lascaze, P. Lemaire, T. Quemener, Y. Lecozler, V. Lollivier, A. Michaud, S. Brajon, L. Hervé</i>	1113
65.2	Assessing the effect of trees on the welfare of dairy cows by limiting insect pressure <i>C. Bonnefous, A. L. Hochstrasser, N. O. Verhulst, Z. Amsler, V. Maurer</i>	1114
65.3	Analysis of the behavior of finisher pigs in the 24 hours before death on a commercial farm <i>M. Okayasu, Y. Sasaki</i>	1115
65.4	The restraint enclosure effects due to African Swine Fever on the reproductive parameters, ethology patterns and welfare of boars and sows of the free-range Greek autochthonous black breed. <i>C. Kalfopoulos, V. Tsartsianidou, A. Moulisanos, A. Triantafyllidis, G. Vatzias</i>	1116
65.5	New house, stressed cows? Behavioural observations following relocation to a new barn <i>T. Rahmann, A. Langehennig-Peristenidou, N. Kemper, N. Volkmann</i>	1117
65.6	Does choice of calving location affect calving duration? <i>T. Tammen, A. Haeussermann, E. Hartung</i>	1118
65.7	Opinion of the FRCAW on the Effects of Transport on the Welfare of Calves under Five Weeks of Age <i>V. Colson, C. Bezançon, L. Kremer, Frcaw Panel Of Experts, G. Aubin-Houzelstein</i>	1119
65.8	Development of a research and demonstration barn to improve animal welfare in dairy husbandry and to regain societal acceptance <i>L. Bachmann, M. Zenk, R. Wulf</i>	1120

Session 66. Rethinking Equine Production in a Systemic Perspective

Room: Room Y5
Commission(s): Horse
Chair(s): Tapprest, Mecocci
Session Type: Theme session

Theatre Session 66		Book of Abstracts page
14:15	<i>Invited</i> Exploring the future of the European equine sector towards 2040: a participatory foresight approach <i>European Horse Network, 4Sing, A. Julien, L. Rosier, F. Gras, H. Blauw, M. Addes</i>	1121
14:45	Professional Conceptions of Equine Wellbeing: Continuous Adjustment Grounded in Observation, Expertise, and a Human–Horse Moral Contract <i>M. Felga, C. Vial, B. Siadou-Martin</i>	1122
15:00	The INOSYS portal, open access equine references <i>G. Mathieu</i>	1123
15:15	Cost of production: a management tool for equine businesses <i>S. Boyer-Lafaurie</i>	1124
15:30	End of session	

Poster Session 66		Book of Abstracts page
66.1	Ecosystem restoration potential of equine farms – development of a practical and scalable framework supporting the EU Nature Restoration Law <i>L. Lovasz, I. Sereda, V. Milojevic, B. Robert, C. Zemp</i>	1125
66.2	An Economic Overview of Equestrian Tourism in France <i>C. Vial, A. Batouche, P. Heydemann, J. Laulhere, M. Primault, C. Drapeau</i>	1126

Session 67. Human-animal relationship: handling methods and welfare for horses and farm animals

Room: Room Y5
Commission(s): Horse, Health and Welfare
Chair(s): O'Driscoll, De Palo
Session Type: Theme session

Theatre Session 67		Book of Abstracts page
16:15	<i>Invited</i> Relational practices in beef suckler systems: A literature review, holistic modelling, and emerging research questions <i>X. Boivin, G. Barbier, E. Delanoue, R. Lardy</i>	1127
16:45	Traffic noise exposure alters horse behaviour at pasture <i>J. Henke-Von Der Malsburg, U. König Von Borstel</i>	1128
17:00	Acoustic relationships between bovine vocalizations and traditional herding songs: implications for human–animal communication and cattle handling under grazing conditions <i>P. Betancourth-Chaves, J. Montoya-Zuluaga, N. Alvarez-Hernandez, B. Rodriguez, D. Vallejo-Timaran</i>	1129
17:15	Behavioural indicators of the emotional state of outdoor managed pigs during an animal-human approach test <i>O. Menant, L. Frigerio, É. Peyrard, L. Boyle, K. O'Driscoll</i>	1130
17:30	Conflict behaviours and potential “positive” behaviours in horses ridden in a low level training situation in their home setting <i>I. Czycholl, J. Winther Christensen, L. Veje Johansen</i>	1131
17:45	End of session	

Poster Session 67		Book of Abstracts page
67.1	Human perception of horses' facial expressions: implications for equine welfare assessment <i>C. Brunet Claret, I. Blanco-Penedo, S. Sund Hagelberg, A. Torra Burgués</i>	1132
67.2	Perceptions of equine welfare and the human–horse relationship within the equestrian community <i>C. Brunet Claret, A. Torra Burgués, S. Sund Hagelberg, I. Blanco-Penedo</i>	1133

Session 68.

Young EAAP

Room: Room Y6
Chair(s): Adriaens, Gislon, Koch, Obsteter
Session Type: Theme session

Theatre Session 68		Book of Abstracts page
14:15	Young EAAP session - impact, career building and workshops <i>I. Adriaens, G. Gislon, F. Koch, J. Obsteter</i>	1134
15:45	Coffee Break	
16:15	Young EAAP session – impact, career building and workshops	
18:00	End of session	

Session 69.

Animal Welfare Aspects and Future Perspectives in Sheep and Goat Production

Room: Room Y7
Commission(s): Sheep and Goat, Health and Welfare
Chair(s): Campion, Almeida
Session Type: Theme session

Theatre Session 69		Book of Abstracts page
14:15	<i>Invited</i> Productivity and behavioural monitoring of dairy goats under heat stress conditions <i>D. Mendez, D. R. Yanez-Ruiz, A. Gómez, B. Farjardo, M. Hassan, A. Sánchez-Garcia, F. Estelles, M. Romero-Huelva</i>	1135
14:45	Feeding preferences of sheep grazing dryland pastures in Montado: influence of crude protein and neutral detergent fiber <i>E. Carreira, J. Serrano, F. G. Silva, N. Borges, E. Mata, M. Cruz, M. Braz, S. Travessa, A. Geraldo, R. Silva, R. Charneca, A. Pereira</i>	1136
15:00	Managing genetics of resistance to parasites in goats: Reviews at different scales of diversity to implement agroecological breeding systems in the tropics <i>C. De La Cruz, J. C. Bambou, N. Mondonnet</i>	1137
15:15	Evaluation of Haemonchus contortus-derived extracellular vesicles in modulating sheep immune response in vitro <i>Y. Dadi, M. Penati, S. Zanzani, L. De Matos, G. Salvi, R. I. Lazar, S. Cavallero, I. Bellini, F. Cecilian, C. Lecchi, A. Gazzonis</i>	1138
15:30	Genetic parameters for resistance to Small Ruminant Lentivirus (SRLV) in an experimental flock of dairy goats <i>R. Rupp, C. Roy, T. Fassier, G. Tosser-Klopp, I. Palhière</i>	1139
15:45	Coffee Break	
16:15	Dairy goat welfare: Towards a welfare monitor with more animal-based welfare indicators <i>F. Marcato, K. Peterson, F. Neijenhuis, J. Roskam, J. Verkaik</i>	1140
16:30	Effects of a higher colostrum intake on health and growth of goat kids in their first 12 weeks after birth <i>F. Marcato, A. Brinkman, T. Van Hattum, J. Verkaik</i>	1141
16:45	Examining the relationship between somatic cell score, test day milk, and milk composition in different stages of lactation in Cyprus Damascus goats <i>L. Koniali, G. Hadjipavlou</i>	1142
17:00	Sheep Pox outbreaks in Bulgaria: Epidemiological spread and socio-economic impacts on the sheep farming sector <i>D. Dimov, P. Zhelyazkova, A. Vuchkov, K. Kolev</i>	1143
17:15	Cooperative handling strategies for group-housed sheep: Short-term training to improve welfare during routine procedures <i>J. Henke-Von Der Malsburg, A. Vernunft</i>	1144
17:30	End of session	

Poster Session 69		Book of Abstracts page
69.1	Impact of dietary supplements, breed and lactation stage on milk somatic cells count in sheep and goats <i>M. Farina, A. Cesarani, A. Nudda</i>	1145
69.2	CMT Scoring of ewe milk 15-70 days after lambing as an indicator for mastitis in commercial meat sheep flocks <i>J. H. Jakobsen, V. Tømmerberg, L. Hektoen, H. B. Olsen, M. O. Gløersen, I. A. Boman, S. Svendsen</i>	1146
69.3	Blood Transcriptome and Immune Cell Profiling Highlights Host Defence Variations in Naïve and Immune Goats infected with Gastrointestinal Nematodes <i>C. De La Cruz, H. Aboshady, M. Rashid, X. Godard, D. Romil-Granvilled, N. Mondonnet, Y. Felicite, J. C. Bambou</i>	1147
69.4	Bioclimatic profile of the rearing areas of local sheep breeds in Montenegro defined by multivariate analysis <i>B. Markovic, M. Djokic, M. Zorc, I. Curik, S. Mirecki</i>	1148
69.5	Within-day dynamics of milk components in intensively managed Saanen dairy goats. <i>J. Kirkham, F. Zamuner, A. Cameron, B. Leury, K. Digiaco</i>	1149
69.6	Farmer attitude to ovine lameness - Where do they seek information when a problem occurs? <i>F. Campion, E. Kelly, J. Angel, J. Delaney</i>	1150

Session 70.

Challenges and opportunities in farming insects

Room: Room Y10
Commission(s): Insects
Chair(s): Naser El Deen, Meijer
Session Type: Industry session

Theatre Session 70		Book of Abstracts page
14:15	Substrate pH: A Critically Overlooked Microenvironmental Factor in Black Soldier Fly Larvae Performance and Systematic Reporting <i>E. Parand, A. Reazei Far, D. G. A. B. Oonincx, R. Hao, S. Naser El Deen, T. Veldkamp</i>	1151
14:30	Bugs in the System: Have the economic and environmental benefits of insect farming been overstated? <i>C. Biteau</i>	1152
14:45	Eclosion and mating postponement, how it influences oviposition in black soldier fly (Hermetia illucens) <i>C. Coudron, J. Claeys, D. Deruytter</i>	1153
15:00	Ammonia emissions during BSFL rearing: initial continuous measurements and the impact of feed protein/carbohydrate ratio <i>D. Deruytter, J. Claeys, C. L. Coudron</i>	1154
15:15	Computer vision for weight estimation and activity levels in Tenebrio molitor: Improving production and welfare <i>E. Osei, M. Wutke, I. Traulsen, J. Tetens, E. Werner, R. H. Mateus-Vargas</i>	1155
15:30	Waste Valorization Through Insects: Larval Growth Evaluation of Hermetia illucens on Olive Pomace Diets <i>C. I. Rumbos, P. Soulioti, G. V. Baliota, M. T. Capucchio, C. G. Athanassiou</i>	1156
15:45	Coffee Break	
16:15	Farming insects: evaluation of safety and legal framework <i>N. Meijer, K. Niermans, L. Tromp, S. Naser El Deen, T. Veldkamp, C. J. De Vos-De Jong, M. J. Appel, E. F. Hoek-Van Den Hil</i>	1157
16:30	Discussion on the challenges of insect rearing	
17:15	End of session	
Poster Session 70		Book of Abstracts page
70.1	Telomere Length as a Biomarker of Health in Apis mellifera <i>R. Pistucci, A. Bonfante, G. Di Prisco, A. Iannuzzi</i>	1158
70.2	House cricket (Acheta domesticus) powder as an alternative protein source in the development of protein energy bars <i>E. Smedo, E. Pereira, B. Carbas, J. Sá Morais, D. Cabral, E. Ramalhosa</i>	1159

Thursday 10 September

Session 71. Breeding for enhanced health and welfare

Room: Room Z
Commission(s): Genetics, Pig
Chair(s): Martin, Kargo
Session Type: Theme session

Theatre Session 71	Book of Abstracts	page
8:30 Improving genomic prediction of juvenile mortality through causal variant inclusion in the Normande dairy cattle breed		1160
<i>L. Chapard, F. Besnard, T. Tribout, S. Aguerre, C. Escoufflaire, H. Leclerc, S. Fritz, S. Mattalia, A. Capitan, P. Croiseau</i>		
8:45 Insights into the genetic basis of emerging health and vitality related traits in Holstein Friesian calves		1161
<i>L. Stahmer, L. Schwarz, L. Engel, K. Voß, G. Thaller</i>		
9:00 Optimizing lesion phenotypes to enable breeding against psoroptic mange susceptibility in Belgian Blue cattle		1162
<i>I. Patteet, L. Wirix, N. De Wilde, L. De Veerman, S. Janssens, E. Claerebout, C. Charlier, N. Buys, R. Meyermans</i>		
9:15 Variance components for number of oocytes and number of embryos in Austrian Fleckvieh cattle		1163
<i>H. Schwarzenbacher, C. Fuerst, J. Miesenberger</i>		
9:30 Revealing inheritance patterns and genomic regions associated with embryonic loss in Holstein Friesian embryos		1164
<i>L. Rienesl, L. Hoffmann, M. Diederich, S. Meier, H. Grothmann, E. Tholen, E. Held-Hoelker, M. Hoelker, C. Große-Brinkhaus</i>		
9:45 Inferring the genetic background of immunity and associated Vitamin D pathway gene polymorphisms in Holstein cattle		1165
<i>M. Aïbouki, S. Vanvanhossou, I. Giambra, D. Gessner, K. Eder, S. König</i>		
10:00 Phenotypic Responses of Milk β-Hydroxybutyrate and Somatic Cell Score to Heat Stress in Dairy Cattle		1166
<i>V. Storing, C. Baes, F. Schenkel, G. Dodd, C. Machefert, F. Malchiodi, C. Richardson, F. Miglior</i>		
10:15 Coffee Break		
10:45 Characterization of WC1+ porcine γδ T cell subpopulations using transcriptomic data		1167
<i>A. Chofre, T. Jové-Juncà, C. Hernández-Banqué, O. González-Rodríguez, R. Quintanilla, M. Ballester</i>		
11:00 Genetic relationship between cardiorespiratory traits assessed via CT imaging with production traits in pigs		1168
<i>M. Londoño-Gil, Ø. Nordbø, N. G. Leite, J. Dunkelberger, E. Grindflek</i>		
11:15 Co-occurrence and genetics of feed intake perturbations and drug treatments in pigs		1169
<i>W. Gorssen, C. Winters, N. K. Kadri, N. Khayatzadeh, H. Pausch</i>		
11:30 Genomic background of bone-related traits considering a genotype-by-environmental interaction in Landrace boars		1170
<i>C. Große-Brinkhaus, M. F. Bellersen, E. Jonas, R. Lohmayer, D. A. Brüggemann, E. Tholen</i>		
11:45 A deterministic epidemiological model of flavobacteriosis in rainbow trout farming: implications for farm management and genetic improvement		1171
<i>A. Caen, F. Phocas, T. Rochat, E. Duchaud</i>		
12:00 Mating strategies to increase the polled phenotype in organic dairy cattle production: potential and consequences		1172
<i>A. Bouquet</i>		
12:15 Establishment of breeding lines for organic dairy production		1173
<i>M. Kargo, J. R. Thomasen, R. Zaalberg, M. Hansen, L. P. Sørensen, T. Christensen, S. Denver, H. M. Nielsen</i>		
12:30 End of session		
Poster Session 71	Book of Abstracts	page
71.1 Genomic evaluation of a lactation persistency indicator in French dairy cattle breeds		1174
<i>Q. Berger, M. Barbat, S. Fritz, E. Dugas, C. Moulin, D. Boichard, A. Ben Abdelkrim, R. Rostellato</i>		
71.2 Prediction of GEBVs for health traits in Australian and German Holstein cattle using Bayesian methods		1175
<i>A. M. Križanac, C. Schmidtmann, J. Bennewitz, G. Thaller, R. Xiang, A. J. Chamberlain, I. M. Macleod, J. Tetens, M. E. Goddard</i>		
71.3 Early Good Is Not Late Good: Why Early Performers Are Not Necessarily Finishing-Phase Winners		1176
<i>S. Götz, H. Geffert, D. Debiasi, U. Höne, I. Traulsen, I. Reker, N. Kemper, J. Probst</i>		
71.4 Identification of candidate genes and key QTL associated with anogenital distance in Holstein cattle		1177
<i>S. K. Ashar, G. R. Dodd, S. M. F. Cunha, F. Miglior, F. S. Schenkel, C. F. Baes</i>		

Session 72. Integration of Hologenomics and Epigenetics into Animal Breeding

Room: Room X6
Commission(s): Genetics
Chair(s): Bickhart, Tiezzi, Pocrnic
Session Type: Theme session

Theatre Session 72	Book of Abstracts	page
8:30 Genomic Diversity and a Haplotype Imputation Reference Panel for Pikeperch (Sander lucioperca)		1178
<i>Z. Cai, Z. Bai, J. Overton, T. Boutrup, H. M. Nielsen, G. Sahana</i>		
8:45 Sequence-level genome-wide analysis of hoof disease traits in Swiss dairy cattle populations reveals a polygenic and breed-specific architecture		1179
<i>S. Vasiljevic, F. R. Seefried, S. Widmer, N. K. Kadri, A. S. Leonard, H. Pausch, A. Steiner, C. Drögemüller, J. Jacinto</i>		
9:00 Understanding dairy producer's perspective and experience with reporting gestational and developmental dairy calf conditions		1180
<i>G. Condello, S. Duggan, E. Leishman, R. Jahnel, H. Sweett, C. Bartels, F. Schenkel, J. Cole, C. Maltecca, F. Miglior, C. Baes</i>		
9:15 Integrating Long-Read Sequencing and SNP Genotyping to Uncover Genetic Determinants of Stillbirth in Holstein Cattle		1181
<i>Y. Zheng, C. Reimer, F. Fischer, C. Schmidtmann, L. Hüneke, C. Klein, C. Kühn, J. Geibel</i>		
9:30 Identification of novel shared loci across purebred boar lines influencing the onset of puberty		1182
<i>P. Sá, C. A. Sevilano, J. M. Tabet, J. Dekkers, R. Fernando, H. Yu, R. M. Godinho, E. Grindflek</i>		
9:45 Single-step genomic predictions considering QTLs with large effects		1183
<i>R. Bonifazi, D. Jamieson, M. Bink, K. Janssen, J. Vandenplas</i>		
10:00 Evaluation of targeted sequencing as a flexible alternative to SNP arrays for routine cattle genotyping		1184
<i>K. Huijben, E. Francis, P. Doran</i>		
10:15 Coffee Break		
10:45 Pangenome construction enables detailed investigation of the IGH locus in alpacas		1185
<i>B. Schmitt, N. Khaveh, A. K. Struck, D. Hölting, J. Metzger</i>		
11:00 GENIUS: Genotype-Informed Unbiased Selection of Individuals for Efficient Phenotyping		1186
<i>M. Neuditschko</i>		
11:15 Discovery of methylated regions from nanopore sequence data of pigs		1187
<i>C. Reimer, J. Geibel, L. Vollmer, A. Weigend, D. Hinrichs, S. Weigend, C. Klein</i>		
11:30 Seasonal drought reshapes the rumen microbiome and metabolic potential of Ethiopian Boran cattle		1188
<i>R. Van Damme, L. Nasirzadeh, W. Ayalew, T. Klingström, G. M. Tarekegn, S. Flores, E. Bongcam-Rudloff</i>		
11:45 Independent validation of Enterosignatures reveals reproducible community patterns and stress-associated assembly under porcine commercial conditions		1189
<i>A. Clavell-Sansalvador, I. T. Vourlaki, R. Río-López, A. Ruiz De Valbuena, I. Huerta, A. Romagosa, C. Y. Chen, J. W. Holl, A. Dalmau, Y. Ramayo-Caldas</i>		
12:00 Shotgun Metagenomic Characterization of the Rumen Microbiome in Response to the Bovaer Feed Supplement in Lactating Holstein Cows		1190
<i>N. Frías-Reid, R. R. Lobo, J. L. Mejía-Méndez, C. Senés-Guerrero, M. De Donato-Capote, D. E. Navarro-López</i>		
12:15 Metagenomic insights into the host-microbiome interaction for genetic mitigation of methane emissions in cattle		1191
<i>Z. Cai, S. Zhang, M. A. Satti, N. Saedi, E. Karaman, G. Sahana</i>		
12:30 End of session		
Poster Session 72	Book of Abstracts	page
72.1 Runs of homozygosity reveal genomic regions associated with tropical climate adaptation in tropically adapted taurine cattle		1192
<i>G. H. C. Borges, V. Ligorì, E. R. Carrara, G. Z. Sussai, R. R. Vicentini, L. E. F. Zadra</i>		
72.2 Updated genome scan for homozygous haplotype depletion identifies a POMT2 nonsense variant causing embryonic loss and stillbirth in Normande cattle		1193
<i>C. Roy, A. Barbat, F. Besnard, L. Dorso, C. Escoufflaire, J. Jourdain, C. Grohs, M. Boussaha, S. Minéry, M. Chambrial, D. Boichard, C. Hozé, A. Vinet, S. Fritz, A. Capitan</i>		
72.3 Population genomics of 1,060 French dairy, beef, and local cattle breeds using whole-genome sequencing-derived SNP panel		1194
<i>A. Molee, P. Faux, C. Grohs, C. Escoufflaire, S. Fritz, D. Boichard, P. Croiseau, A. Capitan, M. Boussaha</i>		

72.4	Allele-specific methylation and parent-of-origin QTL mapping reveal potential epigenetic mechanisms underlying genomic imprinting and beef traits in Nelore cattle	1195
<i>J. J. Bruscadin, T. F. Cardoso, S. C. M. Niciura, W. J. D. S. D. Diniz, J. Virginio Da Silva, P. S. N. De Oliveira, J. Afonso, A. M. G. Ibelli, A. Zerlotini, G. B. Mourao, L. L. Coutinho, L. C. D. A. Regitano</i>		
72.5	Beyond SNPs: INDELs as functional drivers of feed efficiency in Nelore cattle	1196
<i>M. Teodoro, G. Gubiani, A. Maiorano, L. Mota, A. Cánovas, F. Baldi</i>		
72.6	Ovine hypothalamic neurons under proteostatic pressure during leptin resistance	1197
<i>E. Oclon, D. Zieba</i>		
72.7	The in ovo application of synbiotics may influence the humoral immune response against homologous antigens—transgenerational insights	1198
<i>T. Stefaniak, J. Madej, J. Bajzert, K. Bobrek, M. Bednarczyk, E. Grochowska</i>		
72.8	Homozygous haplotype enrichment/depletion mapping identified a recessive variant in ALKBH8 causing rearing-loss in Brown Swiss cattle	1199
<i>S. Glatthard, F. R. Seefried, A. S. Leonard, H. Pausch, C. Drögemüller, J. Jacinto, N. K. Kadri</i>		
72.9	Unravelling signatures of Red Holstein introgression and its haplotype structure in Fleckvieh cattle	1200
<i>J. Schröder, M. Upadhyay, N. Krattenmacher, R. Emmerling, C. Edel, D. Seichter, I. Medugorac, G. Thaller</i>		

Session 73. EGF session: Resilience of grasslands systems for sustainable livestock production

Room: Room X7-9
Commission(s): Livestock Farming System, Sheep and Goat, Cattle
Chair(s): Sturaro, Schneider, Pouloupoulou
Session Type: Theme session

Theatre Session 73		Book of Abstracts page
8:30	Strengthening the EGF–EAAP Collaboration: Advancing Grassland-Based Livestock Systems for a Sustainable Future	
9:00	How farms are impacted and deal with climate change in grassland systems: the case of Occitanie dairy sheep farms in southern France	1201
	<i>V. Colonna Ceccaldi, A. Meynadier, M. Loubière, C. Blayac, O. Patout, C. Domange</i>	
9:15	Grassland Yield and Quality in Relation to Farming System and Intensity	1202
	<i>M. Klopčič, M. Bric, G. Šink, M. Komainda</i>	
9:30	Seasonal variation of water-soluble carbohydrates of temporary grassland in a Mediterranean agroforestry system	1203
	<i>T. Malizzi, F. G. Cella, M. Finocchi, A. Ripamonti, E. Senatore, A. Silvi, A. Mantino, M. Mele</i>	
9:45	Rewetting a major Dutch peat region: assessing protein production under environmental policy targets	1204
	<i>H. Van Dijk, B. Van Selm, D. Tamsma, C. Van Middelaar, S. Oosting, R. Ripoll-Bosch</i>	
10:00	Tree thinning effects on animal performance in tropical silvopastoral system	1205
	<i>J. Pezzopane, R. Pasquini Neto, H. Brunetti, C. Bosi, P. Oliveira, A. Garcia, L. Pinho, A. Souza, G. Ramos, A. Bernardi, A. Pedroso</i>	
10:15	Coffee Break	
10:45	Role of Grasslands in Enhancing Sustainability and Product Quality in Cattle Farming. Insights from the INTAQT project.	1206
	<i>B. Martin, E. Caumette, R. Eppenstein, F. Klevenhussen, J. F. Hocquette</i>	
11:15	Living with wolves? Cross-country differences in perceived predator constraints to agroecological grazing	1207
	<i>A. Van Den Pol-Van Dasselaar, I. M. Jitea, A. Krause</i>	
11:30	Beyond predation Hotspots: Livestock resilience during 26 years of wolf recolonization in the French Alps	1208
	<i>M. Virapin, S. Raniolo, G. Brunschwig, E. Sturaro</i>	
11:45	Seven New Rules for Worm Control In Sheep	1209
	<i>N. Cotter</i>	
12:00	Effects of previous feed intensity on level of compensatory growth in growing cattle on semi-natural grasslands	1210
	<i>L. Hesse, M. Jardstedt, J. Becker, A. Hesse</i>	

12:15	Body reserves dynamics of dual-purpose crossbred (Bos taurus × Bos indicus) cattle across successive production cycles under contrasting semi-extensive grazing farms in Cuba	1211
<i>B. Cormary, M. Rodríguez, V. Pérez, A. Tesnière, P. Salgado, R. Pedraza, J. Pires, N. Friggens, E. González-García</i>		
12:30	End of session	

Poster Session 73		Book of Abstracts page
73.1	Forage quality of rewetted peat grasslands: a preliminary evaluation	1212
<i>J. Mačuhová, S. Thurner</i>		
73.2	Evaluations of selected effects of feeding crushed grain to suckler cow-calves on the animals' fecal indices	1213
<i>H. Scholz</i>		
73.3	Investigation of immune parameters, health indicators and growth of German crossbred lambs exposed to natural gastrointestinal nematode infection	1214
<i>R. Martin, S. Schmucker, V. Stefanski, J. Bennewitz, M. Schmid</i>		

Session 74. Resilience and Structural Change in Dairy Regions Worldwide

Room: Room X4-5
Commission(s): Cattle
Chair(s): Cieslak, Montanholi, Kuipers
Session Type: Theme session

Theatre Session 74		Book of Abstracts page
8:30	<i>Invited</i> Transforming Dairy Systems in APHCA Countries: Productivity, Health and Climate-Smart Innovation	1215
<i>Y. Montanholi, F. Teillard</i>		
9:00	<i>Invited</i> Scaling up strategic investments in the dairy sector using the LSIPT WebApp: Evidence from a national genetic breeding centre in Bhutan	1216
<i>M. Hamon, G. Leroy, T. Yangzome Dorji, S. Norbu</i>		
9:15	<i>Invited</i> Building Inclusive and Sustainable Dairy Production: Global Insights on Community-Led Transformation Models from Heifer International	1217
<i>D. Bhandari, K. Sah, C. Tabora</i>		
9:45	<i>Invited</i> Enhancing dairy productivity in low- and middle-income countries through synergistic approaches	1218
<i>M. S. Muktar, C. S. Jones, B. H. Chuko, A. T. Negawo, M. B. Derseh, A. T. Gari, B. Lukuyu, E. Habte, A. Frank-Lawale</i>		
10:15	Coffee Break	
10:45	<i>Invited</i> Delivering Genetic Gains for Productivity, Climate Resilience, and Low Emissions in African Dairy Systems through ILRI-Led Genomics-Based Breeding	1219
<i>I. Houaga, R. Mrode, S. W. Alemu, G. Gebregziabher, J. Ojango, S. Meseret, E. T. Lyatuu, C. Ekine-Dzivenu, A. Frank-Lawale</i>		
11:00	<i>Invited</i> Investing in dairy for inclusive rural transformation: priorities and challenges from different regions and systems	1220
<i>A. Mottet, P. Ndungu</i>		
11:30	<i>Invited</i> Innovations in temperate grazing dairy systems in Australia driven by precision management of pasture and livestock	1221
<i>F. R. Dunshea, I. Sawyer, F. Ahmadi</i>		
12:00	Production Efficiency Trends in Thai Dairy Farms through Strategic Benchmarking	1222
<i>P. Pattamanont, S. Khongkrapan, J. Khemsawat, B. Granzin</i>		
12:15	End of session	

Poster Session 74		Book of Abstracts page
74.2	The natural additive Fator P included in diets of increases affinities of antibodies specific for salivary proteins of Rhipicephalus microplus ticks in beef and dairy cattle	1223
<i>L. Fernandes, L. Ferreira, R. Bin, I. Santos, R. Paranhos</i>		
74.3	Mitigation of enteric methane emissions by dietary essential oil supplementation in tropical feedlot systems	1224
<i>C. Franzon, J. Micheline, M. Dalafini, F. Oristanio, M. Marques, E. Furlan Junior, E. Magnani, L. Drouet, R. Dari, T. Da Silva, R. Branco</i>		

Session 75. Methane mitigation via animal nutrition - Part 1

Room: Room X2-3
Commission(s): Nutrition
Chair(s): Pinotti, Ranilla García, Ottoboni
Session Type: Theme session

Theatre Session 75		Book of Abstracts page
8:30	Effect of 3-NOP and dietary NDF concentration on methane emission and ruminal synthesis of vitamin B12 in dairy cows <i>S. Lashkari, M. R. Weisbjerg, S. K. Jensen, S. Fedosov, C. W. Heegaard, A. L. F. Hellwing, P. Lund</i>	1225
8:45	Effects of 3-nitrooxypropanol (3-NOP) supplementation on enteric methane emissions and milk production in dairy cows fed canola meal or soybean meal <i>C. Benchaar, F. Hassanat, S. Terry</i>	1226
9:00	Effects of 3-nitrooxypropanol, nitrate, and rumen-protected fat, alone and in combination, on gaseous emissions and performance of lactating dairy cows <i>G. Vivas, W. Muizelaar, J. Dijkstra, A. Bannink, S. Van Gastelen</i>	1227
9:15	Exploring the effects of 3-nitrooxypropanol in diets varying in crude protein and starch content on methane and nitrogenous greenhouse gases emissions from dairy cows <i>S. Van Gastelen, H. J. C. Van Dooren, J. Faas, M. Kambara, A. Haruno, L. F. M. Tamassia, A. Bannink</i>	1228
9:30	Effects of feeding palmitic and stearic acids as triglycerides on milk production and methane emissions in dairy cows <i>S. M. Jespersen, G. Giagnoni, L. Wiking, M. R. Weisbjerg</i>	1229
9:45	Invited Immunonutrition in ruminants <i>A. Schwarm</i>	1230
10:15 Coffee Break		
10:45	Effects of efficiency phenotype and forage to concentrate ratio on milk production and methane intensity in dairy cows <i>M. Vadroňová, P. Fant, K. Kozicka, P. Huhtanen, M. Ramin</i>	1231
11:00	Effect of supplementing lactating dairy cows diet with an Asparagopsis taxiformis based product on enteric gaseous emission, lactation performance, and active compound milk residues <i>S. Danesh Mesgaran, W. Xu, J. L. Romano-Muñoz, A. López-Juárez, A. González De Cosío-Barrón, A. Rytz, M. Bobkov, M. Coulet, E. Soussan</i>	1232
11:15	Effect of a dietary cinnamaldehyde–eugenol–capsicum oleoresin blend on production and methane emissions in Holstein lactating cows <i>C. Christodoulou, S. M. Tondini, D. J. Humphries, H. Khelil-Arfa, P. Kirton, A. K. Jones, C. Panzuti, D. Luebe, S. Stergiadis</i>	1233
11:30	Do cows rank similar in methane yield in first and second lactation? <i>M. H. Kjeldsen, T. De Evan, P. Lund, M. R. Weisbjerg</i>	1234
11:45	Effect of rice bran supplementation on nutrient utilization and methane emissions of beef heifers grazing native pasture <i>C. Ferrés-Castells, G. Fernandez-Turren</i>	1235
12:00	Methane emission response to feed supplements differs among cows <i>K. Veerkamp, M. Van Tol, B. Kemp, W. Van Straalen, A. Van Knegsel</i>	1236
12:15	Dietary sweet chestnut tannins decrease diarrhea incidence and litter nitrogenous gas emissions in pre-weaning holstein calves <i>E. Scaglia, L. Gogna, A. Antonioli, V. Sergi, L. Giagnoni, G. Gilioli, V. Caprarulo</i>	1237
12:30	End of session	
Poster Session 75		Book of Abstracts page
75.1	Rumen microbial adaptation time following dietary shifts and diurnal variation post-feeding <i>A. A. Schönherz, S. C. H. Hansen, M. H. Kjeldsen, M. R. Weisbjerg, Z. Cai, S. J. Noel</i>	1238
75.2	Validation of global methane prediction equations for Austrian dairy cows under silage-based rations <i>M. Gierus, F. Oberhollenzer, L. Dardabou, G. Terler</i>	1239
75.3	Hand-held laser device as a tool to monitor relative differential enteric methane emissions in dairy cows supplemented or not with a natural feed additive <i>A. Silvi, E. Senatore, G. Foggi, A. Mantino, M. Mele</i>	1240

75.4	Effects of individual and stacked feed additives on in vitro methane production <i>Í. R. R. Castro, B. Hiley, O. C. Carballo, G. Scoley, S. Huws</i>	1241
75.5	Effects of garlic extract-attapulgit hybrid mixture on performance and enteric methane production in Hanwoo steers <i>R. Bharanidharan, A. A. K. Nirmal Athauda, S. H. Beak, J. Lee, H. K. Kim, A. Jo, K. H. Kim</i>	1242
75.6	Effects of low levels of nitrate supplementation on milk and methane production in lactating dairy cows <i>Y. Roman-Garcia, L. Dicks, P. Piantoni, G. Schroeder</i>	1243
75.7	Mitigation of methane emissions and modulation of rumen microbiome by Asparagopsis-based feed additives in Hanwoo steers <i>M. Miguel, M. N. Aprilliza Am, A. R. Son, S. H. Kim, Y. P. Naing, K. S. Baik, K. S. Dhia, S. Begum, Y. I. Cho, K. W. Park, T. Park, D. Lawson, S. S. Lee</i>	1244
75.8	Seasonal variability in the response of enteric methane emissions to 3-nitrooxypropanol in dairy cattle <i>M. Omirou, K. Kaikiti, J. Rodosthenous, G. Hadjipavlou, D. Sparaggis</i>	1245
75.9	Bovaer separation by feed particle size at two inclusion doses in dairy cows mixed rations <i>G. Giagnoni, M. Maigaard, C. Ohlsson, N. Walker, M. B. Jensen, M. R. Weisbjerg, P. Lund, G. A. Franchi</i>	1246
75.10	In vitro evaluation of the effect of plant extracts on methane production and fiber degradation in a rumen ecosystem <i>G. Desrousseaux, V. Noirot, A. Froidurot, P. Grimm, S. Julliand</i>	1247

Session 76. Improving fertility in Farm Animals

Room: Room X10
Commission(s): Physiology
Chair(s): Vanselow, Kenny
Session Type: Theme session

Theatre Session 76		Book of Abstracts page
8:30	Metabolomic Profiling of Dairy Cows During the Transition Period: Associations with Reproductive Outcome <i>L. Zambianchi, E. Schievano, G. Campion, E. Giarretta, I. Fusaro, B. Merlo, R. Colletuori, A. Formigoni, L. Mammi</i>	1248
8:45	Lipidomic profile of dairy cows across key reproductive timepoints and association with fertility outcomes <i>P. Prasinou, V. Di Giandomenico, L. Zambianchi, H. Jalal, E. Giarretta, B. Merlo, M. Giammarco, L. M. E. Mammi, I. Fusaro</i>	1249
9:00	Tail hair δ ¹⁵ N identifies cows with lower calf loss and greater liveweight production in extensive beef systems <i>L. Prada E Silva, K. Eyre, K. Mccosker, G. Somerset</i>	1250
9:15	Serum microRNA Signatures Associated with Clinical and Subclinical Endometritis in Dairy Cows <i>S. Kreuzer-Redmer, L. Neubrand, H. Pothmann, M. Drillich, K. Wagener</i>	1251
9:30	Selection for Developmental Speed Skews Sex Ratios and Molecular Profiles in Bovine IVP Embryos <i>V. S. Baddela, T. Fersterer, R. Pöhland, F. D. A. M. Sterza, C. Ludwig, D. Becker, C. Kühn, J. Vanselow</i>	1252
9:45	Extender-Specific Lipidomic Signatures in Buck Semen <i>R. Murray, M. Hitit, M. Bodu, O. Greenwood, Z. Erdogan, S. Woldesenbet, M. R. Ugur, A. P. Cervantes, E. Memili</i>	1253
10:00	Reproductive performance as a pillar of pig production: interaction between parity and barn environmental parameters <i>C. Cintra Rodrigues, I. Bez, C. Sevillano, M. Lopes, S. Weber, L. Costa</i>	1254
10:15 Coffee Break		
10:45	Effect of dietary quercetin and genetic line in rabbit semi-intensive production system <i>D. Jordán-Rodríguez, J. Fernández-González, A. Vicente-Carrillo, P. L. Lorenzo, P. G. Rebollar, R. M. García-García, M. Arias-Álvarez</i>	1255
11:00	Assessment of Securidaca longipedunculata (violet tree) effect on Semen Quality and Blood Sex Hormone Levels in Indigenous Goats <i>K. Shai, N. A. Sebola, S. Lebelo, M. Mabelebele, F. Manyeula</i>	1256
11:15	Effects of maternal undernutrition on splenic white pulp morphology and immune-related metabolomic profiles in Japanese Black (Wagyu) fetuses <i>T. Haginouchi, Y. Suzuki, T. Gotoh</i>	1257
11:30	End of session	

Poster Session 76		Book of Abstracts page
76.1	Computer-Assisted Evaluation of Different Diluents on Kinematic Parameters of Ram Semen During Liquid Storage up to 72 h at 4 °C and after 2 h of Incubation <i>L. Mara, F. Chessa, I. Cossu, O. Todde, C. Nassif</i>	1258
76.2	Effects of egg yolk and goat milk extenders on cryopreserved semen quality of West African Dwarf goats <i>N. A. Muhammed, T. O. Idowu, O. S. Ogundele, E. O. Adekunle, A. B. Kolade, F. A. Bello, A. A. Omoloye, M. A. Agbanimu, R. A. Ahmed, O. C. Olaniyi, V. T. Atanda, J. O. Daramola</i>	1259

Session 77. Carbon accounting on farms: Between standardisation and site-specific realities

Room: Room Y8-9
Commission(s): Livestock Farming System
Chair(s): Rivero
Session Type: Theme session

Theatre Session 77		Book of Abstracts page
8:30	<i>Invited</i> Policy to practice: Driving farm-level change with carbon accounting and transparent Scope 3 <i>J. Gilliland</i>	1260
9:00	Carbon footprint as a key indicator of structural diversity in extensive dehesa livestock farms <i>A. Horrillo, P. Gaspar, A. Rodríguez-Ledesma, M. Escribano</i>	1261
9:15	A combined nutritional-genetic modeling approach to predict enteric methane emissions in individual and groups of dairy cows <i>P. Mwangi, C. Richardson, K. Grant, N. Howes, R. Jahnel, C. Baes, F. Miglior, A. Fleming, E. Kebreab, J. Ellis</i>	1262
9:30	Bridging the Climate-Corporate Gap: Utilizing GWP* with GWP100 for Livestock Companies' Greenhouse Gas Inventories <i>S. Klopatek, L. Thompson, M. Beck, S. Place</i>	1263
9:45	Dynamic Life Cycle Assessment of Greenhouse Gas Emissions of Live Animals in Beef Cattle Production <i>M. Ryyänen, S. Hietala, A. Stygar, J. Niemi, M. Pastell</i>	1264
10:00	Dietary carbon use efficiency, emissions, and losses in growing-finishing pigs <i>G. Shurson, B. Kerr, S. Trabue, D. Humphrey</i>	1265
10:15 Coffee Break		
10:45	Economic and greenhouse gas emissions assessment of grass silage under different management scenarios in Irish grassland systems <i>G. Don, M. Mcgee, L. Gallo, E. Sturaro, M. Berton, P. Crosson</i>	1266
11:00	Constraints on greenhouse gas emission mitigation options of dairy cow farms in Switzerland through production systems and agro-climatic zones <i>D. Stucki, S. Ineichen, B. Reidy, J. Grenz</i>	1267
11:15	Exploring scenarios for integral sustainability of Dutch dairy farms towards 2030 <i>M. De Vries, A. Evers, G. Doornewaard, M. De Haan, J. Reijs, S. Jebbink, G. Migchels, P. Galama</i>	1268
11:30	Relevance, Variability, Availability – Evaluation of German dairy farm data for GHG accounting <i>K. Agethen, K. Bretschneider, L. M. Hollmann</i>	1269
11:45	Environmental assessment of french rainbow trout production : a regional analysis <i>S. De Montmorillon, J. Aubin, A. Tocqueville, C. Van Cuyck, J. Bonneau, M. Dupont-Nivet, S. Pouil</i>	1270
12:00	End of session	

Poster Session 77		Book of Abstracts page
77.1	Advancing Harmonised Data Collection and Product-Based Greenhouse Gas Accounting in Dairy Production <i>F. Fenger, T. Krebs, H. Knopp, H. M. Paulsen</i>	1271
77.2	The carbon footprint of Bonsmara cattle grazing Sourish mixed bushveld in South Africa <i>S. M. Grobler, M. Kidson, H. T. Pule, M. M. Scholtz</i>	1272

Session 78.

Young Pig Management and Nutrition - Part 1

Room: Room Y4
Commission(s): Pig
Chair(s): Lawlor, Trevisi, Girard
Session Type: Theme session

Theatre Session 78		Book of Abstracts page
8:30	<i>Invited</i> Pre- and post-weaning management and nutritional strategies to increase piglet growth and health <i>P. G. Lawlor</i>	1273
9:00	Delayed weaning impacts on piglet gut physiology and metabolism <i>C. Knudsen, S. Ferchaud, M. Despeyroux, C. Lencina, N. Marty-Gasset, L. Cauquil, A. Juppeau, G. Payros, Y. Lippi, S. Combes, M. Beaumont</i>	1274
9:15	A fresh start: The effect of hygiene routine in the farrowing room on piglet faecal consistency, performance, and tail damage prevalence <i>A. Middelkoop, J. Boekhorst, M. Kleerebezem, F. Molist</i>	1275
9:30	Pre-Weaning Supplementary Milk Enhances Post-Weaning Feeding Behaviour and Growth Performance in Piglets <i>F. González-Solé, L. Sobrevia, L. Blavi, A. Koppenol, S. Tibble</i>	1276
9:45	Dietary supplementation with sodium butyrate and plant extracts to optimize the weaning process and productive outcome in piglets <i>J. Muñoz-Grein, A. H. Checkikene, M. Á. Latorre, A. Belanche</i>	1277
10:00	Propionic acid–preserved grain enhances growth performance more effectively than combined butyric acid and resistant starch supplementation in weaned pigs <i>K. R. Connolly, T. Sweeney, J. V. O'Doherty</i>	1278

10:15 Coffee Break		
10:45	Berry Good for the Gut: The effect of Aronia melanocarpa and Ribes nigrum Pomace Mix on Oxidative Stress and Gut Health in Weaned Pigs Challenged with Enterotoxigenic Escherichia coli F18 <i>A. P. Rasmussen, S. K. Jensen, A. R. Williams, K. Jerez-Bogota, C. Lauridsen</i>	1279
11:00	Impacts of encapsulated amino acids on growth performance, gut microbiota, and the caecal metabolome in weaned pigs <i>F. Correa, D. Luise, T. Chalvon-Demersay, D. Guillou, P. Trevisi</i>	1280
11:15	Effect of increasing dietary lysine level on transcriptomic profile in pig longissimus thoracis muscle following a period with dietary protein restriction after weaning <i>R. Ruggeri, M. Sharma, M. Girard, P. Silacci, G. Bee, C. Larsen, A. R. Williams, J. G. Madsen</i>	1281
11:30	Supplementation of His and Arg during the nursery phase improves gut health in weaning piglets fed low crude protein diets. <i>A. J. Galindo, D. Solà-Oriol, M. Paniagua</i>	1282
11:45	Impact of a bioactive additive as an alternative to antibiotic growth promoters on growth performance, gut health, and inflammatory response in weaning piglets <i>A. J. C. Buzatto, G. Zigovski, I. C. C. Bez, M. R. R. Catoia, G. M. D. O. Júnior, P. L. D. O. Carvalho, L. B. Costa</i>	1283
12:00	Late lactation represents the main time-window for sow-to-piglet transmission of persistent gut strains <i>M. Pomies, G. Agoutin, L. Auer, A. Castinel, O. Bouchez, C. Achard, H. Quesnel, G. Pascal, S. Combes</i>	1284
12:15	Lactobacillus postbiotic in gestating and lactating sows: effects on sow microbiota, colostrum omics composition, litter growth and health <i>B. Polimeni, F. Correa, D. Luise, G. Rocchetti, A. Serra, P. Trevisi</i>	1285
12:30	End of session	

Poster Session 78		Book of Abstracts page
78.1	Effect of Dietary Zinc Supplementation on Growth Performance and Health of Piglets during the Early Rearing Phase <i>D. Outor-Monteiro, T. Skau Nielsen, H. Maribo, M. Ramis, J. Paié-Ribeiro, V. Pinheiro</i>	1286
78.2	Effect of increasing the dietary valine-to-lysine ratio on growth performance of average and slow growing pigs during the weaner period <i>C. Larsen, D. A. Columbus, H. M. Hammon, J. G. Madsen</i>	1287
78.3	Effect of increasing levels of linseed expeller in nursery pig diets containing Carob meal <i>N. Einhardt Manzke, A. Torres, A. Balfagon, C. Vanderhaeghe, G. Mantovani, L. Hackenhaar, J. De Laat</i>	1288

78.4	Multi-omics characterization of sow colostrum and faecal microbiota reveals signatures associated with parity, piglet survival and growth	1289
	<i>B. Polimeni, D. Luise, F. Correa, G. Rocchetti, M. Errico, A. Gallo, F. Bonelli, A. Serra, M. Mele, P. Trevisi</i>	
78.5	Semi-targeted metabolomics to explore potential blood biomarkers of oxidative stress in pigs using an E. coli LPS model	1290
	<i>P. A. Madsen, K. Jerez-Bogotá, D. Vodolazska, M. S. Hedemann, C. Lauridsen</i>	
78.6	Effect of tannin of Chestnut and MGM-P on early weaning stage of piglets	1291
	<i>Z. Yang, P. Shi, K. Wang, M. Ma, Y. Enomoto, T. Suda, J. Li</i>	

Session 79. Advancing Animal Welfare Assessment with PLF Technologies: Insights from the aWISH Project and related research - Part 1

Room: Room Y3
Commission(s): Health and Welfare, Sheep and Goat, Precision Livestock Farming, Poultry, Pig, Genetics
Chair(s): Holinger, Maselyne, Blanco-Penedo, Van Noten
Session Type: Theme session

	Theatre Session 79	Book of Abstracts page
8:30	The aWISH vision: Improving welfare of pigs and chickens by automated monitoring of animal welfare indicators at slaughter	1292
	<i>N. Van Noten, F. Tuytens, Awish Consortium, J. Maselyne</i>	
8:45	<i>Invited</i> Monitoring on-farm welfare by using animal-based indicators at slaughter – past and future	1293
	<i>C. Berg</i>	
9:00	An Integrated Welfare Intelligence Platform Across the Animal Production Chain	1294
	<i>G. Mandilaras, K. Perakis</i>	
9:15	<i>Invited</i> Roadmap for a Prototype Knowledge Platform to Track European Animal Welfare Data.	1295
	<i>J. Zemzmi, E. Caro, C. Reverté, S. Ashe, L. Amato, Y. P. Van Der Stede, A. Velarde</i>	
9:30	Experiences and expectations of pig processing plants in the aWISH project to monitor animal welfare using sensor technologies	1296
	<i>R. Klont, M. Bouwknecht, E. Kurt, N. Kajari, J. Reixach, C. Pfeiffer, M. Lindinger, E. Klont</i>	
9:45	<i>Invited</i> The Eyes & Ears project: automatic on-farm monitoring of animal health and welfare	1297
	<i>T. B. Rodenburg, P. Llonch, E. Mainau, W. Wang, M. Coutant, S. Ntalampiras, L. Büttgen, E. D. Ellen, M. Giacobini, O. Guzha, N. Högberg, C. Gaillard, M. Majewski, M. F. Giersberg</i>	
10:00	Using continuous sensor data on barn climate to evaluate the effect of barn climate advice on pig welfare: a Dutch case-study	1298
	<i>K. Van Langeveld, N. Van Staaveren, N. Van Noten, T. B. Rodenburg, M. F. Giersberg, R. Klont, K. Mulder, F. A. Tuytens</i>	
10:15	Coffee Break	

10:45	<i>Invited</i> Development of a computer vision system for the assessment of swine welfare from indicators on carcasses.	1299
	<i>Y. Seddon, F. Ferri, J. Yopez, M. Ahadi, Y. Wang, R. Ko, M. Lagoda, S. B. Ko</i>	
11:00	Interactive catalogue of sensor technologies for automated welfare assessment at pig slaughterhouses	1300
	<i>A. Ramon-Perez, B. Forkman, X. Manteca, P. Llonch</i>	
11:15	Ensemble Machine Learning Framework for Automated Cough Detection in Pigs	1301
	<i>K. Mladenović, M. Tomić, J. Stanojević, D. Dramićanin, B. Karaklajić, V. Vujačić, J. Sudar, N. Kajari, D. Pavlović</i>	
11:30	Validation of a Computer Vision-Based Tail-Length Measurement Algorithm for Finishing Pigs at the Slaughterhouse	1302
	<i>C. Pfeiffer, K. Maschat, S. Kalburgi, A. Voss, C. Bonk, J. Baumgartner</i>	
11:45	Automated real-time monitoring of corneal reflex using computer vision to assess stunning effectiveness in a commercial pig slaughterhouse	1303
	<i>J. Sanchez-Cañadó, A. Ramon-Perez, V. Garcia-Vera, J. Plà-Claver, J. Reixach, J. Canet, S. Gol, X. Manteca, P. Llonch</i>	
12:00	Time of last breath inside the stunner as an accurate proxy to necessary durations of exposure in controlled atmosphere stunning of pigs	1304
	<i>J. Knöll, J. Gelhausen, D. Mörlein, J. Tetens, I. Wilk</i>	

12:15	Detection before occurrence: Predicting stunning effectiveness and re-stunning necessity in pigs via computer vision-based tools	1305
	<i>K. Zavyalova, J. Knöll, I. Wilk, H. Schomburg</i>	
12:30	End of session	

	Poster Session 79	Book of Abstracts page
79.1	Validation of Best Practices to reduce tail, skin and lung lesions in pigs based on a survey with animal welfare experts	1306
	<i>M. Fels, M. Jachens, N. Kemper</i>	
79.2	Integrating Welfare and Economic Assessment of the Weight-Detect AI System in Commercial Pig Production	1307
	<i>M. Boimah, P. Thobe, T. Banhazi</i>	
79.3	Challenges in Establishing Ground Truth for Skin Alterations on Pig Carcasses for Training Computer Vision Algorithms	1308
	<i>C. Pfeiffer, A. Voss, T. Heindl, A. Holzhaecker, S. Kalburgi, C. Bonk, K. Maschat, J. Baumgartner</i>	
79.4	Thermal Stress Detection in Poultry Using Audio Signal Analysis and Supervised Latent Space Structuring	1309
	<i>P. Créach, C. Merchi</i>	
79.5	Validation of a computer vision model for automated tear staining assessment in pigs	1310
	<i>S. Verlinde, K. Van Langeveld, R. P. Angela, N. Van Noten, P. Llonch, F. Tuytens, J. Verwaeren, J. Maselyne</i>	
79.6	An investigation into the effectiveness of an alternative one-step head to body electrocution technique using mains voltage and off-the-shelf electrodes for euthanasia of large pigs (>130kg)	1311
	<i>C. Cole, J. Norton, M. Denicourt, C. Klopfenstein, Y. Seddon</i>	
79.7	A protocol for the assessment of (un)consciousness after stunning during slaughter of cattle	1312
	<i>C. Berg, J. Jerlström, M. Gerritzen, E. N. Sossidou, M. L. Ianetti</i>	
79.8	Pilot insights into repeatable monthly animal welfare assessments on dairy farms	1313
	<i>R. Wulf, J. Kleist, S. Demba, L. Bachmann</i>	
79.9	A new protocol for the assessment of (un)consciousness during slaughter without stunning	1314
	<i>M. Milazzo, S. Rota Nodari, A. Iannetta, M. Di Monte, M. P. Podaliri Vulpiani, E. Di Benedetto, G. Matteucci, L. Torricella, M. Gerritzen, J. Maters, L. Iannetti</i>	
79.10	Gasping and gagging in pigs after CO2 stunning: indicator of insufficient stunning or part of the dying process?	1315
	<i>J. Jerlström, V. Axberg Algotsson, C. Lindahl, C. Berg</i>	

Session 80. Free Communications on Pigs

Room: Room Y5
Commission(s): Pig
Chair(s): Trevisi
Session Type: Free communications (bottom-up)

	Theatre Session 80	Book of Abstracts page
8:30	Effect of dietary inclusion of a Gracilaria chilensis by-product on post-weaning growth and health of pigs	1316
	<i>C. Negrini, J. Glynn, G. Gardiner, L. Giblin, P. Lawlor</i>	
8:45	Protein and fiber source and inclusion level modulate feed preference in weaned piglets.	1317
	<i>O. Tej, J. Leskovec, M. Colom-Pellicer, C. Güell Saperas, M. Ferrando Cogollos, D. Torrallardona</i>	
9:00	Effect of dietary inclusion of a Laminaria hyperborea by-product on post-weaning growth and intestinal health of pigs	1318
	<i>J. Glynn, C. Negrini, G. Gardiner, L. Giblin, P. Lawlor</i>	
9:15	Effects of pre- and post-weaning zinc and copper supplementation strategies on their homeostasis in plasma, intestinal mucosa and liver in pigs	1319
	<i>J. S. Bee Tubin, J. V. Da Silva Duarte, I. Audet, D. Bueno Dalto</i>	
9:30	Characterization of a non-invasive indicator for LPS-induced inflammation in the saliva of pigs fed high or low fiber diets	1320
	<i>M. Sciascia, M. Cavalleri, S. Görs, A. Vernunft, H. Reyer, M. Oster, L. Moscovice, K. Wimmers, J. Zentek, S. Dänicke, S. Kersten, C. Metges</i>	
9:45	Serum magnesium and protein profiles in domestic pigs versus wild boars – possible links to tail biting behaviour	1321
	<i>K. Büttner, K. Westhoff, M. Lierz, C. Irena</i>	

10:00	Haematopoietic traits in indigenous and modern pig breeds are modulated by housing system and developmental stage <i>K. Kapoor, M. Oster, H. Reyer, C. Metges, N. Trakooljul, S. Ponsuksili, E. Muráni, K. Wimmers</i>	1322
10:15	Coffee Break	
10:45	Improving meat quality in local Krškopolje pig breed using advanced optimum contribution selection approach <i>K. Poklukar, M. Čandek-Potokar, M. J. Mercat, S. Taussat, M. Škrlep</i>	1323
11:00	Computed tomography demonstrates high repeatability when compared to chemical analysis when measuring pork carcass composition <i>C. A. Vaz Do Amaral, F. Anderson, M. T. Corlett, M. Trezona, A. Williams, L. Pannier, G. E. Gardner</i>	1324
11:15	A standardized workflow for reproducible pig microbiome profiling across laboratories <i>S. O. Enokela, T. Yergaliyev, K. Flisikowski, S. C. Hornburg, H. Reyer, J. Tetens, K. Wimmers, J. Zentek, A. Camarinha-Silva</i>	1325
11:30	Improving weaning piglets performance and blood immune parameters by supplementing iron through a milk cup system during lactation <i>L. Sobrevia, F. González-Solé, L. Blavi, A. Koppenol, S. Tibble</i>	1326
11:45	It's not just about feeding. Fatty acid composition of the local Angler Saddleback pig <i>A. Olschewsky, M. Krieger, D. Hinrichs, A. Sünder, D. Mörlein</i>	1327
12:00	End of session	
Poster Session 80		
		Book of Abstracts page
80.1	The influence of the sex of fattening pigs on the content of vitamins A and E and cholesterol in the longest dorsal muscle <i>K. Dobiesz, W. Kozera, G. Żak, M. Szyndler-Nędza, A. Mucha, K. Karpiesiuk</i>	1328
80.2	Sensory properties and mechanical parameters of the longest dorsal muscle in fattening pigs depending on sex <i>K. Dobiesz, W. Kozera, G. Żak, M. Szyndler-Nędza, A. Mucha, K. Karpiesiuk</i>	1329
80.3	Evaluation of handheld near infrared spectrometers (NIRS) for prediction of fat quality traits at slaughter <i>Z. Bodor, Y. Chen, D. Mörlein</i>	1330
80.4	GlasSchwein: Development of predictive models for parameters of meat quality and quantity along the pork value chain <i>F. Heinrich, Y. Chen, Z. Bodor, D. Mörlein, R. Hölscher, V. Beck, S. Retz, A. O. Schmitt</i>	1331
80.5	Effect of turmeric supplementation on growth performance, nutrient digestibility, and blood parameters in growing pigs subjected to heat stress <i>L. Pu, S. Shanmugam, J. H. Kim, K. Lee, K. Han, I. H. Kim</i>	1332
80.6	Effect of increasing level of L-carnitine for lactating sows on sow body mobilization, milk composition, litter growth and sow plasma cytokines <i>C. Larsen, D. Nguyen, K. L. Mønsted, T. Bruun, A. Strathe</i>	1333
80.7	Effect of increasing level of extruded linseeds for lactating sows on changes sow body mobilization, litter gain, milk composition and plasma cytokines. <i>E. Christensen, C. Larsen, K. Mønsted, D. Nguyen, S. Jensen, T. Bruun, A. Strathe</i>	1334
80.8	Lactation feed intake and feed intake relative to body weight are associated with litter weaning weight across sow parities <i>C. Mulvenna, M. Sungirai, R. Muns</i>	1335
80.9	E. coli and early mortality: Association of MUC4, MUC13 and FUT1 parental genotypes with pre-weaning mortality in a commercial pig population <i>J. De Kort, J. Depuydt, K. Hooyberghs, S. Janssens, N. Buys, W. Gorssen</i>	1336

Session 81.

Ethics, Data Management and Data Standardization in PLF with the future of AI

Room: Room Y6
Commission(s): Precision Livestock Farming
Chair(s): Foy, Gautier
Session Type: Theme session

Theatre Session 81		Book of Abstracts page
8:30	<i>Invited</i> Rethinking AI for Animal Welfare: Framing, Misinformation and Ethics <i>M. A. Von Keyserlingk, K. Sheng, B. Foris, D. M. Weary</i>	1337
9:00	The Digital Ethogram: A Multimodal, High Time-Resolution Representation of Animal Behaviour <i>T. D. Parsons, D. Foy</i>	1338
9:30	Health and Welfare Commission perspectives on AI and farm animal welfare <i>L. Boyle</i>	1339
9:45	<i>Invited</i> From data streams to breeding values: developing and harmonizing novel phenotypes for sustainable livestock genetic improvement <i>L. F. Brito</i>	1340
10:15	Coffee Break	
10:45	Data standardisation for welfare and genetics evaluations <i>A. Granados Chapatte, S. Orlandini</i>	1341
11:15	European Network on Livestock Phenomics: an international initiative aimed at promoting and resourcing advanced phenotyping in livestock <i>G. Schiavo, S. Bovo, J. Maselyne, T. Norton, L. Fontanesi, & Eu-Li-Phe Consortium</i>	1342
11:30	SENSTARA: Advancing sensor-based indicators of animal resilience, health, and welfare in precision livestock farming <i>D. Foy, J. M. Gautier, B. Foris, C. Morgan-Davies, L. Dale, P. P. Nielsen, G. A. Franchi, X. Díaz De Otálora</i>	1343
11:45	End of session	
Poster Session 81		Book of Abstracts page
81.1	Data preprocessing transparency as a requirement for robust sensor based livestock indicators <i>G. Franchi, B. Foris, J. M. Gautier, C. Morgan-Davies, L. M. Dale, P. P. Nielsen, X. Diaz De Otálora, D. Foy</i>	1344

Session 82.

Advances in feed production and conversion efficiency and small ruminant nutrient utilization

Room: Room Y7
Commission(s): Sheep and Goat, Nutrition
Chair(s): Schmid, Cannas, Steinhoff-Wagner
Session Type: Theme session

Theatre Session 82		Book of Abstracts page
8:30	Effect of milk replacer formulations on goat kids' growth performance and small intestinal development. <i>K. Capdevila Ospina, F. Zamuner, B. Leury, A. Cameron, K. Digiacomio</i>	1345
8:45	Impact of Colostrum and Serum Derived IgG with Cream or Vegetable Oil on Growth and Immune Status of Dairy Goat Kids <i>S. J. Mabjeesh, Y. Wein, Y. Ashbel, C. Sabastian, R. Komakech, R. Tadmor-Levi, T. Theresa Casey, C. Ferreira, N. Argov-Argaman</i>	1346
9:00	Effect of breed on rumen microbiota in lambs treated with aqueous extract of Tithonia diversifolia as an additive <i>O. T. Barreto Cruz, D. C. Mogollon Vergara, R. D. Castañeda Serrano, J. C. Henao Zambrano, M. A. Ospina Barrero</i>	1347
9:15	Replacing corn grain with dried sugar beet meal in fattening goats: effects on feed efficiency, gastrointestinal microbiota and plasma metabolomic profile <i>M. Penati, F. J. Giráldez, M. Dehnavi, P. Cremonesi, F. Biscarini, F. Cecilian, C. Lecchi, A. Martín, M. J. Ranilla, M. Hosseini Ghaffari, L. Abdennebi-Najar, S. López, S. Andrés</i>	1348

9:30	Feeding hydroponic barley sprouts to early lactation dairy goats: consequences for intake, nutrient utilization, milk performance, and immune markers	1349
	<i>S. J. Mabjeesh, R. Komakech, Y. Wein, C. Sabastian, H. Haim Tagari</i>	
9:45	Milk and plasma multi-omics: insights into feed conversion and residual intake in dairy goats.	1350
	<i>J. Kirkham, F. Zamuner, A. Cameron, N. E. Doomun, D. De Souza, B. Leury, K. Digiaco</i>	
10:00	Associations of residual feed intake with growth performance, body size, carcass traits, meat quality and blood parameters in growing Naimi lambs	1351
	<i>A. ElAwad, O. Alsheblak, M. Eltemamy, A. Kullan, E. Neumann, S. Alalawi, T. Alketbi, S. Matarneh, H. Alshamsi, S. Alalawi, A. Alkaabi, A. Alkuwaiti, D. Alketbi, D. Albahar, T. Alkaabi, J. Loor, A. Elolimy</i>	
10:15	Coffee Break	
10:45	How diet can improve lamb muscle lipid profiles and rumen microbiome	1352
	<i>B. Fuchs, D. Dannenberger, L. Perkins, N. Scollan</i>	
11:00	The supply with branched chain volatile fatty acids during the transition period and the lactation of dairy ewes.	1353
	<i>A. Foskolos, A. Gomez, D. Kleinschmit, E. Skepetari, V. Galanis, N. Vasileiou, E. Malisiova, M. Alexandraki, D. Kantas</i>	
11:15	Comparing weaning strategies: growth performance of dairy goat kids in intensive systems	1354
	<i>K. Capdevila-Ospina, F. Zamuner, B. Leury, A. Cameron, K. Digiaco</i>	
11:30	Assessment of feeding rations in small ruminant farms using the Small Ruminant Nutrition System	1355
	<i>G. Batikas, S. Dokou, A. Zemou, S. Vouraki, G. Arsenos</i>	
11:45	End of session	
Poster Session 82		Book of Abstracts page
82.1	Exploring the ruminal metabolome of sheep supplemented with essential oils	1356
	<i>E. Rodrigues Cavalheiro Junior, O. Pricila Prado Calixto, E. Jorge Pilau, R. De Oliveira Venci, R. Martin Do Prado</i>	
82.2	Sex-specific effects of local and imported alfalfa on performance, intake, digestibility, morphology, methane emissions, and nitrogen balance in Korean crossbred goats	1357
	<i>K. Kwan-Woo, L. Eun-Do, K. Hyo-Jin, B. Sung June, T. Byamungu Mayange</i>	
82.3	The lactation and seasonal effects on glucose utilization in dairy goats under high ambient temperature	1358
	<i>S. Thammacharoen, C. Chitueakul, K. Yutthaworawit, P. Bunkhan, S. Veeraman, N. Saipin, N. Chaiyabutr</i>	

Session 83. Artificial intelligence applications in poultry farming systems

Room: Room Y10
Commission(s): Poultry
Chair(s): Druyan, Odintsov Vaintrub
Session Type: Theme session

Theatre Session 83		Book of Abstracts page
8:30	<i>Invited</i> Technologies for Individual Sensing of Poultry in Commercial Hen Houses	1359
	<i>V. Bloch, M. Ross, A. Haron, Y. Heler, A. Godo, I. Halachmi, S. Druyan</i>	
9:00	Seeing the Unseen: AI-Powered Detection of Feeding, Drinking, and Resting Behaviors in Broiler Production	1360
	<i>M. Alexy, G. Toth</i>	
9:15	Investigation on chickens' escape behaviour in the free-range area related to the presence of birds of prey	1361
	<i>L. Hofmann, A. Langehennig-Peristenidou, N. Kemper, N. Volkmann</i>	
9:30	Automated Poultry Behavior Monitoring via Hybrid Multi-Object Tracking and Learned Visual Descriptors	1362
	<i>B. Ramon, J. Tarres, M. Piles, C. Antens</i>	
9:45	From climate projections to building adaptation: a decision-support tool for heat stress in French poultry farming	1363
	<i>Y. Guyot</i>	
10:00	Direct monitoring of Salmonella typhimurium using smartphone CL imaging	1364
	<i>G. Shtenberg, N. R. Nirala</i>	
10:15	End of session	

Poster Session 83		Book of Abstracts page
83.1	Dual-Mode Portable Biosensing Platform for Rapid and Sensitive Detection of Salmonella typhimurium	1365
	<i>G. Shtenberg, S. Arumugam</i>	

Session 84. Impact of early life nutrition on growth physiology and carcass characteristics of livestock.

Room: Room Y10
Commission(s): Physiology
Chair(s): Kenny, Keogh
Session Type: Theme session

Theatre Session 84		Book of Abstracts page
10:45	<i>Invited</i> Effect of enhanced early life nutrition on gene expression profiles of key metabolic tissues in Holstein Friesian bull calves	1366
	<i>K. Keogh, S. Coen, P. Lonergan, S. Fair, D. Kenny</i>	
11:00	The first feeding matters: effects of passive immunity transfer on growth performance in dairy-beef calves under practical field conditions	1367
	<i>S. Wiedemann, E. Thesing</i>	
11:15	Effect of post-weaning or pre-finishing concentrate supplementation at pasture on growth and carcass characteristics of early-maturing dairy-beef steers	1368
	<i>J. Mcmorrow, A. K. Kelly, M. Mcgee, D. A. Kenny</i>	
11:30	Effects of nutrition and methane-suppressing feed additives on plasma metabolites of pre-weaned replacement Holstein heifers	1369
	<i>O. Cristobal Carballo, S. O'Callaghan, S. A. Goldansaz, T. Yan, G. Scoley</i>	
11:45	Effect of dietary supplementation in Rubia Gallega calves assessed by ultrasound measurements	1370
	<i>C. Montes, S. Crecente, C. García, R. Alonso, T. Moreno</i>	
12:00	A survey of dairy-beef calf management practices pre- and post-weaning, and post-turnout to pasture on Irish commercial farms	1371
	<i>R. R. Male Here, M. Mcgee, P. Smith, T. Bourke, J. Smyth, S. Reilly, E. O'Riordan, D. Kenny, C. Mcaloon, B. Earley</i>	
12:15	End of session	

Poster Session 84		Book of Abstracts page
84.1	Umbilical Cord Blood Profiling at Birth as a Predictor of Early Growth in Piglets	1372
	<i>A. Solà-Navarro, E. Huenul, P. Salgado-López, J. F. Pérez, S. M. Martin-Orúe</i>	
84.2	Effects of maternal undernutrition on cardiac mitochondrial DNA (mtDNA) abundance and the cardiac transcriptome in Japanese Black fetuses	1373
	<i>R. Yamamoto, T. Haginouchi, S. Takagi, T. Gotoh</i>	
84.3	Effects of maternal undernutrition on binucleate cell abundance and gene expression in the placenta of Wagyu (Japanese Black cattle)	1374
	<i>S. Takagi, T. Haginouchi, R. Yamamoto, T. Gotoh</i>	
84.4	Tributyrin supplementation reduces diarrhea frequency and severity in preweaning calves	1375
	<i>A. Vigh, M. Müller, V. Thierer, J. Guyader</i>	
84.5	Effect of early life high nutrition on hepatic metabolism, gene expression, and DNA methylation in beef cattle	1376
	<i>S. Muroya, A. Saito, K. Ojima, T. Gotoh</i>	

Session 85. Enhancement of GxE methodologies in animal breeding

Room: Room Z
Commission(s): Genetics
Chair(s): Strucken, Pszczola
Session Type: Theme session

Theatre Session 85	Book of Abstracts page
14:15 Estimation of genetic heterogeneity of variance (environmental sensitivity) of milk yield traits and somatic cell count to predict resilience of dairy cattle <i>M. Haile-Mariam, M. Khansefid, M. Goddard, G. Nieuwhof, A. Gilmoure</i>	1377
14:30 Deriving environmental variability indicators from herd-level milk production by calendar date for reaction norm models <i>R. Shi, N. C. Friggens, J. I. Ohlsson, T. Klingström, M. H. Pinard-Van Der Laan</i>	1378
14:45 Integrating satellite environmental proxies to optimise genotype-by-environment interaction assessment for weaning weight in Namibian pasture-based beef systems <i>S. Vanvanhossou, S. König</i>	1379
15:00 Population reaction norms of three German dairy cattle populations regarding heat stress <i>A. K. M. Neufeldt, V. P. Haas, J. Bennewitz</i>	1380
15:15 Genetic analysis on heat tolerance of fertility traits in Canadian Holstein cows <i>G. R. Dodd, F. S. Schenkel, C. F. Baes, F. Malchiodi, C. Richardson, F. Miglior</i>	1381
15:30 Phenotypic analysis of heat stress effects on enteric methane emissions in Holsteins <i>B. Amini, G. Dodd, C. Baes, F. Schenkel, C. Richardson, F. Malchiodi, F. Miglior</i>	1382
15:45 Coffee Break	
16:15 Genotype by environment interactions for methane emissions of dairy cows fed 3-nitrooxypropanol <i>A. Van Breukelen, S. Van Gastelen, B. Gredler-Grandl, R. Veerkamp, Y. De Haas</i>	1383
16:30 Towards a resilience selection index capturing health, longevity and heat tolerance in three German dairy breeds <i>F. Keßler, J. Bennewitz</i>	1384
16:45 Recursive model approach to define nitrogen use efficiency in Holstein dairy cows <i>R. E. Jahnel, L. R. Schaeffer, L. M. Alcantara, B. O. Mekanjuola, A. Flemming, F. S. Schenkel, F. Miglior, C. F. Baes</i>	1385
17:00 A New Multivariate Index for Resilience Selection in the Nelore Breed <i>V. A. Ligor, L. F. C. Araújo, G. H. C. Borges, L. E. F. Zadra, J. N. S. G. Cyrillo</i>	1386
17:15 Genomic Insights into Genotype × Feed Interactions for Feeding Behaviour, Efficiency and Carcass Traits in Different Pig Breeds <i>M. F. Bellersen, E. Jonas, I. Brinke, A. Kiefer, E. Tholen, C. Große-Brinkhaus</i>	1387
17:30 Deep phenotypes of growing Charolais cattle divergent in residual feed intake fed two contrasting diets <i>H. Nguyen-Ba, A. Van Der Linden</i>	1388
17:45 Environmental and Spatial Drivers of Genetic Variation in the Rubia Galega Cattle <i>N. Mejuto-Vázquez, R. Rodríguez-Bermúdez, P. Martínez, M. Hermida</i>	1389
18:00 End of session	
Poster Session 85	Book of Abstracts page
85.1 Effect of temperature and humidity index on the performance of hyperprolific sows at first service <i>L. Espinoza-Aguirre, J. Romo-Rubio, J. Romo-Valdez, J. Portillo-Loera, A. Romo-Valdez, U. López-Arroyo, J. Uriarte</i>	1390
85.2 Estimation of genetic parameters for egg weight across the laying cycle in hens <i>M. Sanchez-Diaz, N. Ibañez-Escriche, L. Varona, D. López-Carbonell, D. Cavero, C. Casto-Rebollo</i>	1391

Session 86. Genetics and epigenetics in cattle: different approaches to study stressful events

Room: Room X6
Commission(s): Cattle, Pig, Genetics
Chair(s): Cesarani, Kiefer
Session Type: Theme session

Theatre Session 86	Book of Abstracts page
14:15 <i>Invited</i> (Epi)genomic regulation of phenotype diversity and plasticity in cattle <i>V. Baddela, J. Vanselow, G. Moreira, C. Charlier, D. Becker, G. Plastow, C. Klein, C. Kühn</i>	1392
14:45 Exploring blood methylome differences in dairy cow breeds under feed restriction <i>G. Costa Monteiro Moreira, J. A. a. Pires, V. Costes, F. Ali, H. Jammes, H. Kiefer</i>	1393
15:00 Environmental modulation of blood DNA methylation in Jersey cattle with shared genetic background <i>G. Sahana, V. Costes, E. Karaman, R. B. Stephensen, C. Patry, M. S. Lund, H. Kiefer, Z. Cai</i>	1394
15:15 Intergenerational and transgenerational match/mismatching effects of ancestor calving months on lactation curves in Simmental cattle <i>N. P. P. Macciotta, L. Degano, D. Vicario, C. Dimauro, A. Cesarani</i>	1395
15:30 Impact of late gestation heat stress on progeny's health in dairy cows <i>E. Vanbergue, G. Costa Monteiro Moreira, L. Brun-Lafleur, D. Plouzin, B. Vaillant, V. David, M. Brochard</i>	1396
15:45 Coffee Break	
16:15 Epigenome-wide association of DNA methylation with phenotypic traits and environment in French Holstein cows <i>A. Asset, V. Costes, G. Potier, M. P. Sanchez, F. Besnard, C. Fouere, S. Fritz, C. Patry, G. Foucras, H. Jammes, C. Richard, V. Gelin, L. Le Berre, A. De Paula Reis, D. Boichard, C. Le Danvic, G. Costa Monteiro Moreira, D. Makowski, H. Kiefer</i>	1397
16:30 Seasonal investigation of circulating microRNAs in two Sicilian cattle breeds to evaluate the response to heat stress <i>S. Tumino, A. Antoci, M. Carlentini, G. Chessari, A. Criscione, S. Bordonaro, D. Marletta</i>	1398
16:45 Seasonal effects on bull sperm-borne sncRNA profile <i>P. Dey, V. Costes, A. Bonnet, C. Le Danvic, E. Sellem</i>	1399
17:00 Changes over time, individual variability and environmental influence on blood cell counts in healthy heifers <i>P. Martin, D. Descamps, A. Bachelet, E. A. Richard, R. Lefebvre, V. Costes, F. Ali, G. Costa Monteiro Moreira, H. Jammes, C. Ferret, S. Riffault, F. Blanc</i>	1400
17:15 Diversity of Toll signalling pathway adaptors as a source for breeding for health traits in Czech Red Pied cattle <i>K. Novák, K. Samaké, T. Valčíková</i>	1401
17:30 Dynamics of sheep sperm sncRNAs during maturation, from testis to ejaculated sperm <i>I. Bourassi, V. Costes, L. Jouneau, A. Frambourg, A. Chauveau, P. Chavatte-Palmer, E. Sellem</i>	1402
17:45 Age, genetics, laying intensity, and housing conditions affect DNA methylation of the oxytocin receptor in female chicken <i>C. Reimer, S. Weigend, C. Klein</i>	1403
18:00 End of session	
Poster Session 86	Book of Abstracts page
86.1 The effect of ambient temperature during first 10 days after parturition of female calves on their milk production during the first lactation <i>V. Tančin, L. Mačuhová, M. Uhrinčat, M. Vršková, J. Mačuhová</i>	1404
86.2 Prenatal thermal environment of calves and their milk production and composition in first lactation <i>L. Mačuhová, V. Tančin, M. Uhrinčat, M. Vršková, J. Mačuhová</i>	1405
86.3 Genetic correlations between clinical mastitis, metritis and ovarian cysts in Polish HF cows <i>P. Topolski, W. Jagusiak, T. Suchocki</i>	1406
86.4 Transcriptomic analysis to identify genes involved in physiological and immune responses to heat stress challenges in Romanian Holstein lactating cattle <i>D. Gavojdian, V. M. Ber, A. E. Mizeranschi, M. Mincu-Iorga, I. Nicolae, D. E. Ilie</i>	1407
86.5 Hormonal induction enhances functional differentiation in bovine mammary organoids <i>E. Mussard, S. Belvederesi, C. Kjeldgaard Larsen, M. Ladefoged Kjelsgaard, L. Bach Larsen, N. Aagaard Poulsen, S. Purup</i>	1408
86.6 Genome-wide DNA methylation profiling in a German Black Pied Cattle trio <i>A. C. Schmidt, G. A. Brockmann, E. M. Strucken</i>	1409

Session 87. The role of multifunctional and extensive livestock systems in enhancing rural development and ecosystem services

Room: Room X7-9
Commission(s): Livestock Farming System
Chair(s): Pouloupoulou, Pauler
Session Type: Theme session

Theatre Session 87	Book of Abstracts page
14:15 <i>Invited</i> Navigating the Promise and Pitfalls of Phytochemically Diverse Pastures for Multifunctional and Sustainable Livestock Systems <i>A. Serkan</i>	1410
14:45 Agroecological characterization of alpine pastures from visible to invisible: linking pasture use, vegetation, soil chemistry, and microbial communities. <i>S. Raniolo, C. Pornaro, E. Basso, S. Da Re, A. Ceppatelli, L. Giagnoni, A. Squartini, E. Sturaro</i>	1411
15:00 Integrating locally adapted legumes into multifunctional and extensive Mediterranean livestock systems <i>I. Pouloupoulou, P. Kechagia, T. Hadjigeorgiou, P. Bebeli, I. Hadjigeorgiou</i>	1412
15:15 Western Italian Alps are losing upland cheese production <i>M. Coppa, C. Costamagna, L. M. Battaglini</i>	1413
15:30 Added value of grassland based dairy farming systems: the Trentingrana PDO production in Eastern Italian Alps. <i>A. Ceppatelli, S. Da Re, M. Berton, E. Benedetti Del Rio, S. Raniolo, E. Sturaro</i>	1414
15:45 Coffee Break	
16:15 <i>Invited</i> Site-adapted farming systems in mountain regions: a synthesis of key characteristics, transformations and challenges <i>M. K. Schneider, C. M. Pauler</i>	1415
16:45 Lamb meat production in marginal areas: a comprehensive carbon footprint assessment accounting for soil carbon sequestration <i>E. Sabia, C. Pacelli, A. Di Trana, R. Paolino, A. Coppola, C. Cosentino, L. Vignozzi, A. Braghieri</i>	1416
17:00 Effect of breed on the health and welfare of semi-extensively reared dairy goats in Greece <i>A. Zemou, S. Vouraki, G. Batikas, A. Gelasakis, G. Banos, G. Arsenos</i>	1417
17:15 Panel Discussion	
18:00 End of session	
Poster Session 87	Book of Abstracts page
87.1 Adoption of regenerative management practices in Mediterranean Dehesa Livestock Systems and their contribution to ecosystem services <i>P. Gaspar, A. Horrillo, A. Rodríguez-Ledesma, M. Escribano</i>	1418
87.2 Multifunctional extensive small ruminant farming in Amorgos island (Greece): implications for rural development and ecosystem services <i>A. Kominakis, M. Goliomytis, M. Koveos, I. Hadjigeorgiou</i>	1419
87.3 Effects of Pasture Diversification Strategies on Milk Production in Dairy Cows <i>L. Carmona-Flores, M. Bionaz, D. E. Prado-Tarango, K. La Terra, J. Cruickshank, S. Ates</i>	1420

Session 88. Resilient grazing and forage production, coping with environmental challenges in dairy production

Room: Room X4-5
Commission(s): Cattle, Nutrition
Chair(s): Giagnoni, Valldecabres
Session Type: Theme session

Theatre Session 88	Book of Abstracts page
14:15 Towards a New Selection Index for Holstein Cattle in Pasture-Based Production Systems: Stakeholder Perspectives from a Survey <i>A. Breiholz, N. Volkmann, S. Voßgerau, D. Hinrichs, N. Kemper, G. Thaller, N. Krattenmacher</i>	1421
14:30 Emerging practices and perceptions of regenerative agriculture across pioneering Dutch dairy farms <i>J. Threels, E. Bokkers, E. De Olde</i>	1422
14:45 The potential of grass biorefinery on dairy farms <i>M. Hoogterp, A. Klop, S. Jebbink, A. Evers, J. De Boer, G. Van Duinkerken</i>	1423
15:00 Winter grazing by dairy cows: a viable solution for climate change adaptation <i>V. Brocard, D. Benoit, C. Caraes, S. Schetelat, G. Trou, E. Tranvoiz</i>	1424
15:15 <i>Invited</i> Adapting Dairy Cattle Grazing Systems to Climate Change: The Role of Agroforestry <i>M. Mele</i>	1425
15:45 Coffee Break	
16:15 Herbage mass and pasture allowance affect grazing behavior more than milk production in dairy cows grazing polyphytic pasture in southern Chile <i>R. G. Pulido, I. Calvache, E. Herrera, J. P. Keim, O. A. Balocchi</i>	1426
16:30 Milk urea concentration ranges suitable as indicators of nitrogen utilization in grazing dairy cattle <i>M. Mangwe, C. Reed, R. Bryant, S. Davis, G. Scott, C. Phyn, D. Pacheco</i>	1427
16:45 Effect of increasing lucerne-to-maize silage proportion in diets on performance of dairy cows <i>S. Hu, R. Delagarde, N. Edouard, Y. Huang</i>	1428
17:00 Co-ensiling whole crop corn with increasing percentages of common beans (<i>Phaseolus vulgaris</i>) <i>M. Hünerberg, J. Hummel</i>	1429
17:15 Degradation Kinetics of Forage Monocultures and Multispecies Swards Harvested at Two Maturity Stages <i>R. Valencia, C. Reynolds, J. Hammond, L. Crompton</i>	1430
17:30 Red clover in grass silage-based dairy systems: A meta-analysis <i>P. Huhtanen, G. Baduge, M. Vaga, S. Krizsan</i>	1431
17:45 End of session	
Poster Session 88	Book of Abstracts page
88.1 A comparison of Good Agriculture Practices (GAPs) for sustainable dairy farming in South Africa with the RISE 3.0 (Response-Inducing Sustainability Evaluation) tool <i>T. Blignaut, E. Van Marle-Köster, H. Meissner</i>	1432
88.2 AgroServ: an integrated multi-RI platform supporting agroecological transition in cattle production <i>R. Baumont, D. Baldo, M. Boër, S. Dramé, P. Florent, H. Ibrahim, R. Pieruschka</i>	1433
88.3 Exploration of resilience metrics in grazing dairy cows <i>A. I. Trujillo, A. L. Astessiano, M. Regueiro, E. Jorge-Smeding</i>	1434
88.4 Resilience indicator and productive performance in a commercial grazing dairy farm <i>A. I. Trujillo, M. Regueiro, E. Jorge-Smeding, A. L. Astessiano</i>	1435
88.5 Effect of incorporating <i>Bromus valdivianus</i> Phil. on the nutritive value of a mixed pasture during the spring–summer season in southern Chile <i>R. G. Pulido, I. Calvache, B. Barria, C. Asenjo, J. P. Keim, O. A. Balocchi</i>	1436
88.6 Polyphenol oxidase activity, phenolic concentration and utilisable crude protein in red clover (<i>Trifolium pratense</i> L.) accessions <i>G. Baduge, M. Vaga, S. Krizsan</i>	1437
88.7 Winter grazing or bale haylage fed indoors for pregnant heifers: growth performance and synthesis of welfare and behavioral indicators <i>V. Brocard, D. Fouvez, G. Trou, S. Schetelat, D. Benoit, E. Tranvoiz, M. Le Guenic</i>	1438
88.8 Chemical composition, in vitro digestibility, and methane production of selected fodder trees in late summer <i>E. Manzocchi, J. Botzas-Coluni, A. Manoukians, M. Probo, M. Terranova, P. Mariotte</i>	1439

Session 89. Methane mitigation via animal nutrition - Part 2

Room: Room X2-3
Commission(s): Nutrition
Chair(s): Pinotti, Ranilla García, Ottoboni
Session Type: Theme session

	Theatre Session 89	Book of Abstracts page
14:15	Agolin and Polygain Supplementation Reduces Methane Production Without Affecting Blood Metabolites in Grazing Sheep Under Commercial Farm Conditions <i>B. Z. Tunkala, K. Anderson, M. Flavel, I. Sawyer, R. Eckard, F. Dunshea, S. S. Chauhan</i>	1440
14:30	Modifying aspects of ruminal fermentation to mitigate enteric methane generation in goats through the use of saponin- and tannin- rich plant sources - A meta-analysis. <i>E. Malematja, K. Daniel, M. Mabelebele, J. W. Ng'Ambi</i>	1441
14:45	Effects of individual and combined feed additives on ruminal in vitro fermentation characteristics. <i>B. Hiley, Í. R. R. Castro, S. Huws, K. Theodoridou</i>	1442
15:00	Assessment of some Mediterranean shrubs by in vitro studies: total gas production and CH4, CO2, H2, O2, N2 profiles <i>A. Cabiddu, B. Solinas, G. Moniello, P. A. Ruiú, G. M. Marrosu, M. Decandia, M. Acciaro, V. Giovanetti, M. G. Serra, M. Niolu, S. Rodrigo, G. Moreno, E. Sales-Baptista, A. Oliveira, M. I. Ferraz De Oliveira</i>	1443
15:15	Dose-Dependent Modulation of Methane Production, Rumen Fermentation, Digestibility and Rumen Microbial Community by L-Carvone: An in vitro Study <i>H. Jalal, L. Pompei, M. Giammarco, M. Irfan Malik, S. Akram, C. Chaves Lopez, M. Zeeshan Akram, F. Ghiaccio, R. Colleluori, I. Fusaro</i>	1444
15:30	In Vitro Assessment of Eucalyptus and Ginger Essential Oils on Methane Production in Rumen Fermentation <i>F. Ghiaccio, A. Federiconi, V. Piensi, V. Palanca, R. Colleluori, L. Zambianchi, P. Parazza, A. Formigoni, A. Palmonari</i>	1445
15:45	Coffee Break	
16:15	In vitro screening of potential synergistic combinations of garlic, cinnamon and oregano to decrease rumen methanogenesis <i>A. H. Chekikene, J. Muñoz-Grein, M. Mireaux, A. Belanche</i>	1446
16:30	In vitro screening of succinogenic bacteria and dicarboxylic acids as alternative electron sinks during bromoform-mediated methanogenesis inhibition <i>L. Gonzalez-Chappe, A. Daudet, P. Alvarez-Hess, R. Tognelli, A. Pittaluga, A. Relling</i>	1447
16:45	In vitro ruminal digestibility of bay laurel (Laurus nobilis L.) essential oil at different concentrations <i>A. Maggiolino, N. Parabita, G. Incampo, G. De Mastro, G. Basile, C. Ruta, P. De Palo</i>	1448
17:00	How carbonate based buffers and magnesium based buffers affect methane production in a rumen simulated environment <i>B. Naughton, O. A. Demehin, I. Hodge, P. Quille, B. Wenner, S. O Connell</i>	1449
17:15	Effect of hydroponic barley fodder-containing diets on methane production and rumen fermentation in dairy cattle: an in vitro assessment <i>E. Pacifico, M. Terranova, S. Amelchanka, M. Senese, P. Premarajan, M. Niu, L. Pinotti</i>	1450
17:30	End of session	

Session 90. In vitro methodologies for ruminant and non-ruminant nutrition, including comparison with in vivo & ex vivo

Room: Room X10
Commission(s): Nutrition
Chair(s): Kar, Stergiadis
Session Type: Theme session

	Theatre Session 90	Book of Abstracts page
14:15	Barrier protective effect of single-malt distillery-derived Lactobacillus postbiotic <i>O. A. Demehin, M. Ryan, A. Dowley, S. O Connell</i>	1451
14:30	Milk oligosaccharides shape the gut mucosal barrier in vitro in suckling rabbits <i>M. Rumeau, M. Beaumont, C. Lencina, E. Jones, L. Cauquil, S. Combes, C. Knudsen</i>	1452

14:45	Curcumin loaded liposomes ameliorates DSS-induced colitis in mice: in vitro and In vivo studies <i>L. L. La Min, K. Adhimoolam, T. Min</i>	1453
15:00	Ensiled forages modulate rumen fermentation and microbiome in lambs <i>A. Chaudhry</i>	1454
15:15	Linking in vitro methane yield with rumen fermentation patterns and milk quality traits during the transition period <i>R. El Hawat, D. Giannuzzi, S. Massaro, S. Schiavon, S. Pegolo, A. Cecchinato, F. Tagliapietra</i>	1455
15:30	Extracellular vesicles from low- and high-virulence Streptococcus uberis strains differentially regulate bovine neutrophil viability and inflammasome activation in vitro <i>M. Penati, O. Balbi, Y. Dadi, G. Salvi, R. I. Lazar, N. C. Cirone Silva, C. Lecchi, F. Cecilian, L. G. De Matos</i>	1456
15:45	End of session	

	Poster Session 90	Book of Abstracts page
90.1	A botanical and organic acid blend protects intestinal cell viability and reduces heat stress-induced oxidative stress across human, porcine, and avian in vitro models <i>F. Ghiselli, A. Toschi, B. Tugnoli, E. Grilli</i>	1457
90.2	Exploring the combined effects of plant extracts, tannins, and saponins on cecal fermentation in weaned piglets using consecutive batch culture incubations <i>J. Muñoz-Grein, A. H. Checkikene, M. A. Latorre, A. Belanche</i>	1458
90.3	Dose-Response Effects of Isoacids Supplementation in Dry Cow Diets: Impacts on Microbial Nitrogen and Fiber Fermentation <i>R. Bevilacqua, D. H. Kleinschmit, A. Gomez, M. T. Socha</i>	1459
90.4	The effects of supplementation with the natural additive Fator P on feeding of Rhipicephalus microplus parasite larvae. <i>L. Fernandes, L. Ferreira, R. Bin, I. Santos, R. Paranhos</i>	1460

Session 91. Nutri-omics/Feed Omics in reference to animal health and welfare.

Room: Room X10
Commission(s): Nutrition, Health and Welfare
Chair(s): Kar, Kreuzer-Redmer
Session Type: Theme session

	Theatre Session 91	Book of Abstracts page
16:15	Effect of fermentation of field pea grains with Companilactobacillus kimchii on the microbiome in pigs using metagenomics and metaproteomics <i>F. Quinger, N. Klein, A. Camarinha-Silva, M. Rodehutscord, J. Seifert</i>	1461
16:30	Metabolomic responses of porcine gut organoids to Escherichia coli <i>M. Du Teil Espina, H. Fijten, B. Han, M. Vrieling, S. Van Hemert</i>	1462
16:45	A transcriptomic approach to study the effects of reducing the dietary balanced protein level on small intestine metabolism of slow-growing broilers <i>A. E. P. Mary, J. Gulmann Madsen, A. R. Williams, T. A. Woyengo</i>	1463
17:00	Untargeted metabolomics in urine and milk reveals coordinated nitrogen related metabolic responses to dietary protein degradability in dairy cows <i>M. Errico, A. Catellani, F. Foldi, M. Moschini, G. Rocchetti, A. Gallo</i>	1464
17:15	Dietary vitamin D ₃ dose-dependently modulates gene expression in peripheral blood mononuclear cells of dairy cows following an intramammary immune challenge <i>G. Costa Monteiro Moreira, G. De Aguiar, Y. Martel-Kennes, C. Silvestri, D. E. Rico</i>	1465
17:30	Functional diversity of cannabinoid receptors in the Czech Red Pied and Czech Red cattle <i>K. Novák, T. Paulová, E. Pěchoučková</i>	1466
17:45	End of session	
	Poster Session 91	Book of Abstracts page
91.1	Effect of dietary Lactobacillus Plantarum TWK10 on growth performance, nutrient digestibility, blood profile and gut microbiome in beagles <i>S. Y. Jang, K. Lee, K. Das, L. Pu, I. H. Kim</i>	1467

91.2	Integrative Genomic and Molecular Modeling Analyses Elucidate the Structural and Functional Impact of the GCKR P446L Variant in Type 2 Diabetes	1468
	<i>M. J. Jang, R. K. Pathak, T. H. Min, Y. J. Seo, C. Lim, J. M. Kim</i>	
91.3	Ensemble Stacking Model Based Integration of Omics Data Uncovers Dynamic Biological Mechanism Landscape and Prognostic Factors of Sleeve Gastrectomy in Morbid Obese	1469
	<i>Y. J. Seo, M. J. Jang, C. Lim, J. M. Kim</i>	
91.4	The effect of reduced protein diet on epigenetic changes in muscles of Krškopolje pigs	1470
	<i>K. Poklucar, M. Škrlep, M. Čandek-Potokar, M. Englund, C. Guerrero-Bosagna, F. Pértille</i>	

Session 92. Value addition and special characteristics of AnGR - Particularities of local breeds

Room: Room Y8-9
Commission(s): Genetics
Chair(s): Berg, Schoon
Session Type: Theme session

	Theatre Session 92	Book of Abstracts page
14:15	Invited Maintaining agrobiodiversity: Holistic sensory and consumer testing of local chicken breeds and crossbreeds thereof with commercial lines	1471
	<i>D. Mörlein, C. Siebenmorgen, J. Mörlein, M. Strack, A. Risius</i>	
14:45	Assessment of post-thaw semen quality in two conserved Norwegian rooster lines	1472
	<i>A. Kettunen, E. L. F. White, M. Honkatukia, N. Svartedal, A. K. Krogenæs, J. Peippo, A. Sayyari</i>	
15:00	Quo vadis Leicoma pig?	1473
	<i>R. Schafberg, F. Rosner, B. Kröck, H. Reyer, M. Wensch-Dorendorf</i>	
15:15	Genomic relationships among four Northwestern European dual-purpose cattle breeds: Implications for strategic exchange and preservation of unique and shared genetic diversity.	1474
	<i>J. Huisman, J. Hoorneman, J. Ten Napel, G. Brockmann, P. Korkuc, D. Todd, A. Blom, M. Schoon</i>	
15:30	Genomic analysis of genetic diversity and population stratification in Swabian-Hall pigs	1475
	<i>L. Vollmer, J. Geibel, L. Kistner, A. Weigend, C. Worat, R. Weishaar, M. Petig, D. Hinrichs, S. Weigend, C. Reimer</i>	
15:45	Coffee Break	
16:15	Invited Genetic Insights into the Diversity and Structure of European Draft Horse Breeds	1476
	<i>L. Vostry, H. Vostra-Vydrova, A. Halvonik, N. Moravcikova, K. Palesova, R. Kasarda, B. Hofmanova, G. Mészáros, V. Cubric-Curik, I. Nagy, A. Bokor, I. Curik</i>	
16:45	Pedigree analysis and genomic characterization of two local German cattle breeds	1477
	<i>V. Fenske, N. Krattenmacher, G. Thaller, D. Hinrichs</i>	
17:00	Historical expansion and severe recent demographic contraction in the South African Beef Shorthorn population	1478
	<i>S. Lashmar, E. Cason</i>	
17:15	Genomic Structure of Local Sheep Breeds in Tunisia Using SNP Markers	1479
	<i>I. Bensouf, I. Hayaha, N. Mhamdi, S. B. S. Gaouar</i>	
17:30	Genomic effective population size in two lines of mice divergently selected for homogeneity of birth weight	1480
	<i>C. Ojeda-Marín, M. Saura, J. P. Gutiérrez, N. Formoso-Rafferty, I. Cervantes</i>	
17:45	Preliminary analysis of ancestral genomic effective population size in a SRC Iberian pig population selected for homogeneity of birth weight	1481
	<i>C. Ojeda-Marín, M. Muñoz, F. Sánchez-Esquiliche, J. M. García-Casco, F. Goyache, J. P. Gutiérrez, N. Formoso-Rafferty, I. Cervantes</i>	
18:00	End of session	
	Poster Session 92	Book of Abstracts page
92.1	Preserving genetic diversity in the local Belgian Piétrain pig populations.	1482
	<i>K. Wijnrocx, H. Wilmot, A. Markey, D. Duarte, P. Mayeres, N. Gengler</i>	
92.2	Leicoma Pigs – a Traditonal Breed Revived	1483
	<i>L. Frenkel, B. Kröck, M. Wensch-Dorendorf, H. Reyer, F. Rosner, R. Schafberg</i>	

Session 93. Young Pig Management and Nutrition - Part 2

Room: Room Y4
Commission(s): Pig
Chair(s): Lawlor, Trevisi, Girard
Session Type: Theme session

	Theatre Session 93	Book of Abstracts page
14:15	From genes to practice: breeding for intestinal health and resilience	1484
	<i>M. Fredholm</i>	
14:45	A dual-challenge model simulating subclinical post weaning enteric dysfunction in piglets: Impacts on gut integrity and markers of inflammation	1485
	<i>D. Vodolazska, H. Nygaard Lærke, C. Lauridsen</i>	
15:00	Blood Transcriptomic Determinants of Post-Weaning Diarrhea in Commercial Pigs	1486
	<i>M. Luigi-Sierra, J. Sun, E. Ibragimov, M. Kjelin Morsing, M. P. Rydal, J. P. Nielsen, P. Karlskov-Mortensen, S. Cirera, M. Fredholm</i>	
15:15	Digestibility and fibre degradation of wheat bran and <i>Palmaria palmata</i> in post-weaning piglets	1487
	<i>C. Meyhoff Crone, K. E. Bach Knudsen, É. Chassé</i>	
15:30	Early-Life Robustness: Hematological and Immune Pathways Linking Pre-Weaning Growth to Post-Weaning Diarrhea Treatment	1488
	<i>J. Sun, M. Luigi-Sierra, E. Ibragimov, M. Kjelin Morsing, M. Peter Rydal, J. P. Nielsen, P. Karlskov-Mortensen, M. Fredholm</i>	
15:45	Coffee Break	
16:15	Deciphering the intestinal pig microbiome and its function in early life	1489
	<i>H. Smidt, M. Gujare, B. Ozdinc, J. Boekhorst, M. Kleerebezem</i>	
16:45	Species-level faecal microbiota development from suckling to 25 days postweaning in piglets: response to pre-weaning nutritional supplementation assessed by shotgun metagenomics	1490
	<i>K. Jerez-Bogota, C. Lauridsen, D. Vodolazska, F. Asnicar, N. Canibe, O. Hojberg</i>	
17:00	Non Digestible Carbohydrate Structure Differentially Modulates Responses to ETEC F18 in Weaned Pigs	1491
	<i>N. Razmgah, K. E. Bach Knudsen, M. Skou Hedemann, N. Canibe</i>	
17:15	Effects of Dietary L-glutamate, L-aspartate, and Their Combination on Growth Performance, Diarrhea Severity, and Amino Acid Digestibility of Weaned Piglets Challenged with Enterotoxigenic <i>Escherichia coli</i>	1492
	<i>S. Wongchanla, Y. Park, S. Park, S. Sun, Y. Zhao, Y. Liu</i>	
17:30	Dietary protein and amino acid levels affect the gut metabolome and intestinal epithelial function in weaned piglets	1493
	<i>L. H. Chen, M. S. Hedemann, S. Purup, K. Jerez-Bogotá, N. Canibe</i>	
17:45	Genetic Determinants of Gut Microbial Genera Abundance and Presence in Growing Pigs	1494
	<i>E. Ibragimov, M. Luigi-Sierra, J. Sun, M. K. Morsing, M. P. Rydal, J. P. Nielsen, M. Fredholm, P. Karlskov-Mortensen</i>	
18:00	End of session	

Session 94. Advancing Animal Welfare Assessment with PLF Technologies: Insights from the aWISH Project and related research - Part 2

Room: Room Y3
Commission(s): Health and Welfare, Sheep and Goat, Precision Livestock Farming, Poultry, Pig, Genetics
Chair(s): Holinger, Maselyne, Blanco-Penedo, Van Noten
Session Type: Theme session

	Theatre Session 94	Book of Abstracts page
14:15	Stakeholder and consumer perspectives on animal welfare improvements in meat production	1495
	<i>A. Kyriakidis, A. N. Louvrou, C. Hauschildt, M. Ntovas, I. Kostopoulos, E. Altsitsiadis, A. Stamos</i>	
14:30	Invited Animal welfare and biosecurity on farm: are there conflicts?	1496
	<i>C. Correia-Gomes, O. Soriano, L. M. Tamminen, G. Olmos Antillón, A. Burrell, E. Biebaut, T. B. Rodenburg, N. Van Noten, T. Tobias</i>	
14:45	Two frameworks for expert-based livestock welfare scoring: A comparative analysis	1497
	<i>S. Verlinde, B. Forkman, F. Tuytens, P. Llonch, B. Rodenburg, J. Verwaeren, J. Maselyne</i>	

15:00	Economic impact of enhanced pig welfare systems on Austrian finishing farms using information from automated monitoring <i>P. Thobe, M. Boimah, C. Pfeiffer</i>	1498
15:15	How to evaluate animal welfare improving initiatives on regional and national level? <i>M. F. Giersberg, N. Van Staaveren, K. Van Langeveld, N. Van Noten, F. A. M. Tuytens, T. B. Rodenburg</i>	1499
15:30	From animal-based welfare indicators to EU policy integration: lessons from the aWISH project <i>H. Lambert</i>	1500
15:45	Coffee Break	
16:15	A systematic review of sensor technologies for automated welfare assessment of broilers <i>B. Forkman, P. Llonch, A. Ramon-Perez</i>	1501
16:30	Validation of an automated system for at-slaughter assessment of footpad dermatitis and hock burn in broiler chickens <i>N. Van Staaveren, K. Van Langeveld, J. Schulte-Landwehr, J. Mulder, P. Galliot, P. Créach, P. Sztandarski, J. Marchewka, B. Forkman, N. Van Noten, F. A. Tuytens, M. F. Giersberg, T. B. Rodenburg</i>	1502
16:45	A molecular and biochemical reference approach for validation of vision systems that automatically record catching damage in broiler chickens at slaughter <i>P. Sztandarski, A. Jaszczyk, J. Marchewka, M. Solka, J. Rey-Gotxi, A. Szprynca, J. Schulte-Landwehr, J. Mulder, M. Kuras-Smolnik, F. Tuytens, B. Rodenburg</i>	1503
17:00	Toward operational heat stress monitoring in poultry transport: a CFD-trained surrogate model <i>Y. Guyot, P. Créach</i>	1504
17:15	Impact of bird placement on Airflow Resistance in laying hen Transport Crates using a Porous Media Approach <i>N. Ulanowska, L. Rong, L. Van Dijk, A. B. Riber, L. Foldager, M. S. Herskin</i>	1505
17:30	Optimizing Pig Welfare Through Digital Transparency: A Multimodal Sensor System for Real-Time Transport Monitoring <i>M. Ganster, S. Herter, V. Restrepo, S. C. L. Fischer</i>	1506
17:45	"Best Practices" to improve broiler welfare – scientific experts' vs. poultry farmers' perspectives <i>M. Jachens, N. Kemper, M. Fels</i>	1507
18:00	End of session	

Session 95. Innovations in equine feeding and management strategies

Room: Room Y5
Commission(s): Horse
Chair(s): Julliand, Marchal
Session Type: Theme session

Theatre Session 95		Book of Abstracts page
14:15	<i>Invited</i> Effect of season on pasture composition, intake, and health in horses <i>V. Milojevic, C. Omphalius, S. Julliand</i>	1508
14:45	The use of shade by grazing horses <i>J. Auclair-Ronzaud, C. Lesoudard, E. Montginoux, E. Legros, A. Leguerre, S. Henry</i>	1509
15:00	Investigation of a pivotal age in the ageing of digestive function in horses. <i>C. Omphalius, L. Marchal, G. Sorci, V. Milojevic, P. Grimm, S. Julliand</i>	1510
15:15	Chicory as an Antiparasitic Driver: Shaping the Parasite–Microbiota–Host Triad in the Equine Holobiont <i>N. Mach, S. Méndez, J. Malsa, J. Auclair-Ronzaud, D. Bars, M. A. Sevilla-Boisferon, G. Pot, H. Robert, M. Monié--Ibanes, A. Velarde, L. Lansade, A. R. Williams, E. Richard, G. Yannic, G. Bourgoin, G. Fleurance</i>	1511
15:30	The maternal vertical transmission of the bacterial microbiota shapes the foal microbiota on the long-term <i>L. Marchal, S. Julliand, G. Sorci, P. Grimm</i>	1512
15:45	End of session	
Poster Session 95		Book of Abstracts page
95.1	Effect of alkaline reduced water on gastrointestinal inflammation in horses <i>S. Julliand, V. Milojevic, B. Von Rechenberg, A. Martin, P. Grimm</i>	1513

95.2	Horse feeding in relation to gastric health – nature does it best <i>M. Bachmann, G. F. Schusser, M. Wensch-Dorendorf, C. Pisch, M. Bochnia, M. M. Santo, G. Köller, M. Schmicke, K. Heinichen, A. Zeyner</i>	1514
95.3	Wash it all away - Evaluation of the efficiency of different cleaning methods on drinking water quality in automatic bowl drinkers for horses under practical conditions <i>M. S. Wiese, A. C. Heitgreß, S. Kuhnke, U. Müller, J. Stracke, C. Heinemann</i>	1515
95.4	Alternative control against Stomoxys calcitrans: efficacy assessment of a litter-desiccant on its life cycle <i>G. Weis Servat, A. Salem, E. Coudert, A. Dall'orsoletta, A. Juanchich, E. Liénard, É. Bouhsira</i>	1516
95.5	Case Study: Mineral Content of Trimmings from Different Hoof Parts Using TXRF in an Oldenburg Sport Horse With and Without Mineral Feed Supplement <i>M. Kerst, S. Pauling</i>	1517

Session 96. PLF technologies from research to practice: co-creation, start-up, scale-up, introducing farmers to technology

Room: Room Y6
Commission(s): Precision Livestock Farming
Chair(s): Odintsov Vaintrub, Lebreton
Session Type: Challenge session

Theatre Session 96		Book of Abstracts page
14:15	Data science and innovation – from academic research to industrial applications <i>I. Adriaens</i>	1518
14:30	Practical application of PLF technologies in pasture based production systems, from academia to startups <i>M. Odintsov Vaintrub</i>	1519
14:45	AgrifoodTEF after three years: Lessons learned by researchers providing innovation services to agrifood tech companies <i>Z. Guy, D. Faradji, J. Ménadi, J. M. Gautier</i>	1520
15:00	Development of an interactive sensor system for recording animal activity for intelligent, group-specific optimization of the barn environment in pig farming <i>I. Hennig-Pauka, S. Retz, F. Lohkamp, L. Müter, A. Zuber, J. Schmidt-Moßig, S. Fischer, M. Ganster, S. Herter, C. Visscher</i>	1521
15:15	Automated detection of boar taint to enable sustainable pig production <i>L. Morgan, R. I. D. Birkler</i>	1522
15:30	From Compliance to Sustainable Continuous Improvement: Embedding AI-Enhanced Post-Mortem Assessment into a Structured Program to Advance Herd Health and Welfare in Pigs <i>M. Krieger, D. Rhen</i>	1523
15:45	Coffee Break	
16:15	Fostering Data Sharing to Construct High-Quality Datasets: Unlocking AI Potential for Livestock Behavior Studies <i>M. Bonneau, C. Coupechoux, E. Desterbecq, F. Laperruque, T. Cochau</i>	1524
16:30	Digital animal welfare data in pig production: Collection practices, data-sharing patterns and determinants of farmers' willingness to provide data <i>C. Achilles, H. Grotsch, S. Lehde, A. Schütz, H. Schulze, M. Mergenthaler, S. Kühl</i>	1525
16:45	End of session	
Poster Session 96		Book of Abstracts page
96.1	Building environment diagnostics in cattle farming in the Upper Rhine region <i>C. Eck, P. Massabie, S. Weidmann, J. Weller, L. M. Dale</i>	1526

Session 97. Calf Rearing Under the Lens: Health, Welfare, and Physiological Outcomes

Room: Room Y7
Commission(s): Physiology
Chair(s): Van Knegsel, da Silva, Hernández-Castellano, Lopreiato
Session Type: Theme session

Theatre Session 97		Book of Abstracts page
14:15	<i>Invited</i> Why has progress stalled in reducing morbidity and mortality in dairy calves? <i>D. Renaud</i>	1527
14:45	Impact of early dam–calf separation on serum ghrelin in dairy calves <i>N. Mejuto-Vázquez, C. López-Novo, S. Rojo-Montejo, M. Rico, R. Rodríguez-Bermúdez, F. Dieguez, R. Fouz</i>	1528
15:00	Early dynamics of immune, stress and redox biomarkers in serum and saliva of dairy calves with and without neonatal calf diarrhea <i>F. G. Silva, J. Cerón, L. E. Hernández-Castellano, M. González-Cabrera, C. Conceição, L. Pardo-Marín, A. Muñoz, J. Cerqueira, S. Silva, E. Lamy</i>	1529
15:15	Maternal metabolic status during late gestation of dairy cows and its association with offspring birth weight and growth. <i>T. Fokkema-Van Der Ploeg, J. Roelofs, J. Gross, W. Voskamp-Harkema, A. Van Knegsel</i>	1530
15:30	Do dairy calves reared by foster cows benefit from the additional provision of milk from an automatic feeder? <i>M. Gurny, L. Wiczorreck, L. Gygax, E. Hillmann, U. Knierim</i>	1531
15:45 Coffee Break		
16:15	Progressive delay of suckling opportunities: effect on weaning distress in a cow-calf contact system <i>R. Gillet, K. Barth</i>	1532
16:30	Feasibility of using a mobile platform application for farmers to submit observations of Maternal Protective Behaviour in Cow-calf contact herds. <i>J. Johnsen, Føske, B. Heringstad, S. Kischel, Grønmo, R. T. Garmo, S. M. Stubsjøen</i>	1533
16:45	Milk yield and composition changes in cows following short-term separation after one-week of cow-calf contact compared with early separated cows <i>J. Kurek, A. Kurek, J. Harms, E. Zeiler, J. Steinhoff-Wagner</i>	1534
17:00	First-lactation milk yield and growth performance of dairy heifers reared with prolonged dam-calf contact <i>C. S. Wegner, H. K. Eriksson, A. Edvardsson Rasmussen, S. Agenäs, L. Rönnegård, S. Ferneborg</i>	1535
17:15	Two paths to one estimate: Cow- and calf-derived methods to quantify milk production in full cow-calf contact systems <i>C. L. Van Zyl, A. T. M. Van Knegsel, S. Agenäs, E. A. M. Bokkers</i>	1536
17:30	Long-term calf nursing compared to conventional milking affects milk yield and milk fat content after calf weaning <i>S. Drendel, L. Wiczorreck, M. Gurny, U. Knierim, L. Gygax, E. Hillmann</i>	1537
17:45	Effect of cow-calf contact on milk yield and milk flow in an automatic milking system before, during and after separation from the calf <i>S. Almlöf, S. Ferneborg, S. Agenäs</i>	1538
18:00	End of session	
Poster Session 97		Book of Abstracts page
97.1	Evaluation of bioactive core based on plant extracts to support neonatal calves diarrhea <i>L. Mourlhou, M. Rumeau, P. Gautier, L. Le Corre, V. Courtois, A. Juanchich, E. Coudert</i>	1539
97.2	Alterations in milk composition and fatty acid profiles as indicators of subclinical and clinical mastitis in Holstein cows <i>M. Stolcova, L. Barton, E. Kasna</i>	1540
97.3	Relationships between feeding behaviour and milk fatty acid profiles in lameness-affected Holstein cows <i>L. Barton, M. Stolcova, E. Kasna</i>	1541

97.4	Mucin distribution and remodelling along the bovine gut-lung axis during respiratory infection <i>G. Derolez, M. Criado, T. Peyret, F. Mompарт, D. Bars-Cortina, M. Silva, C. Schnee, G. Pot, H. Robert, M. Monié--Ibanes, A. Poujade, E. Richard, G. Meyer, M. Ducatez, J. Benavides, N. Gaide, N. Mach</i>	1542
97.5	Impact of postnatal drying management and ambient temperature on microbial colonization in neonatal calves <i>S. Mochkina, T. M. Liegsalz, C. S. Ostendorf, J. Steinhoff-Wagner</i>	1543

Session 98. Next-generation breeding strategies for resilient and ethical poultry production

Room: Room Y10
Commission(s): Poultry
Chair(s): Méda, Preisinger, Druyan
Session Type: Theme session

Theatre Session 98		Book of Abstracts page
14:15	<i>Invited</i> Breeding broilers against growth-related 'defects' – lessons from the past to the future <i>A. Cahaner</i>	1544
14:45	<i>Invited</i> Genome engineering approaches to address male chick culling and broiler reproductive constraints <i>E. Ben-Tal Cohen, O. Genin, M. Pfann, M. Mimon, I. Cohen, T. Kushnir, A. Haron, D. Shinder, S. Dharanivasan, C. Avitan, E. Lamed, C. Tepe, E. Hershkowitz, S. Druyan, Y. Cinnamon</i>	1545
15:15	Broiler breeders can be selected in free-mating systems. Analysis of performance, egg quality and welfare in three breeds. <i>L. Baux, E. Guettier, F. Derouin-Tochon, E. Raynaud, S. Réhaut-Godbert, N. Guyot, E. Le Bihan-Duval, S. V. Mignon, J. M. Collet</i>	1546
15:30	Beyond additivity: SNP matrix transformation and deep learning improve genomic prediction of egg performance and quality traits in laying hens <i>B. E. Osatohanmwen, S. Hosseini, M. Schmutz, T. Beissinger, A. R. Sharifi</i>	1547
15:45 Coffee Break		
16:15	<i>Invited</i> Tailored interferon receptor knockouts in chickens reveal key regulators of disease resilience <i>M. Alhussien, B. Schusser, R. Preisinger</i>	1548
16:45	A systematic review of resilience indicator traits in chickens <i>M. Van Der Sluis, L. Büttgen, S. Auerbach, A. Collin, A. Bulamu Ekiri, K. Wimmers, T. Fernandes Farias, H. Bergmann, E. D. Ellen</i>	1549
17:00	Genetic parameters for behavioural plasticity and predictability and their relationship with welfare traits in laying hens <i>G. Vaccari, M. B. Petelle, P. Willemsem, S. G. Gebhardt-Henrich, M. J. Toscano, P. Duenk</i>	1550
17:15	Field-based phenotyping of egg laying and dual-purpose poultry lines in agroforestry systems: Implications for next-generation breeding for regenerative farm resilience <i>M. Odintsov Vaintrub</i>	1551
17:30	Effects of in ovo stimulation with bioactive substances on epigenetic modifications in broiler chickens <i>A. Bełdowska, M. Barszcz, A. Dunisławska</i>	1552
17:45	Prenatal motor activity in layer embryos: first evidence of sex-linked differences and exploration of strain effects <i>R. Garant, B. Tobalske, N. Van Staaveren, D. Powers, T. Widowski, B. Willie, A. Harlander</i>	1553
18:00	End of session	
Poster Session 98		Book of Abstracts page
98.1	Temporal dynamics and sex-specific transcriptomic remodeling of chicken primordial germ cells in extended in vitro culture <i>S. Altgilbers, G. Neufeld, C. Klein</i>	1554
98.2	Quantitative genetic analysis of growth, carcass and meat traits in Sundheimer chickens <i>D. Kohnke, M. Schmid, J. Bennewitz, M. G. G. Chagunda</i>	1555
98.3	Genotype and housing systems influence Eimeria prevalence in FUNAAB Alpha and indigenous Nigerian chickens under natural infection conditions <i>E. Odah, W. Mathew, T. Micheal, I. B.m</i>	1556

The European Federation of Animal Science - EAAP

The main aims of the EAAP are to promote, by means of active co-operation between its members and other relevant international and national organizations, the advancement of scientific research, sustainable development and production systems; experimentation, application and extension; to improve the technical and economic conditions of the livestock sector; to promote the welfare of farm animals and the conservation of the rural environment; to control and optimize the use of natural resources in general and animal genetic resources in particular; to encourage the involvement of young scientists and technicians. More information on the organization and its activities can be found at www.eaap.org.

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The European Federation of Animal Science (EAAP) has close established links with its sister organizations of American Society of Animal Science (ASAS), American Dairy Science Association (ADSA), Canadian Society of Animal Science (CSAS) and Asociación Latinoamericana de Producción Animal (ALPA) and is also member of the World Association for Animal Production (WAAP).



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EAAP started in 2023 a new initiative to create closer connections between European livestock industries and the animal science network. Therefore, the “EAAP Industry Club” was shaped with the specific aim of bringing together the important industries of the livestock sector with our European Federation of Animal Sciences. All companies dealing with animal production (nutrition, genetic, applied technologies, etc.) are invited to join the “EAAP Industry Club” because industries will have opportunity to increase their visibility, to be actively involved in European animal science activities, and to receive news and services necessary to industries. In addition, through the Club, industries will enlarge their scientific network and will receive specific discounts on sponsoring activities. The Industries that already joined the “EAAP Industry Club” are:



Membership gives:

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YoungEAAP



What is the YoungEAAP?

YoungEAAP is a group of young scientists organized under the EAAP umbrella. It aims to create a platform where scientists during their early career get the opportunity to meet and share their experiences, expectations and aspirations. This is done through activities at the Annual EAAP Meetings and social media. The large constituency and diversity of the EAAP member countries, commissions and delegates create a very important platform to stay up-to-date, close the gap between our training and the future employer expectations, while fine-tuning our skills and providing young scientists applied and industry-relevant research ideas.

Committee Members at a glance

- Ines Adriaens (President)
- Jana Obsteter (Vice President)
- Giulia Gislon (Secretary)
- Franziska Koch (National representative)

YoungEAAP promotes Young and Early Career Scientists to:

- Stay up-to-date (i.e. EAAP activities, social media);
- Close the gap between our training and future employer expectations;
- Fine-tune our skills through EAAP meetings, expand the special young scientists' sessions, and/ or start online webinars/training with industry and academic leaders;
- Meet to network and share our graduate school or early employment experiences;
- Develop research ideas, projects and proposals.

Who can be a Member of YoungEAAP?

All individual members of EAAP can join the YoungEAAP if they meet one of the following criteria: Researchers **under 38 years of age**.

Just request your membership form (info@eaap-youngclub.org) and become member of this network!!!

Agriculture in Germany



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Germany, the land of engineering and industry, has always remained a country with a highly developed agricultural sector. Despite being densely populated, half of the country's land is used for agriculture. Around one million people in around 270,000 agricultural businesses produced goods with a value of around 75 billion euros per year.

German agriculture is one of the four largest producers in the European Union. More than 50 percent of agricultural land, grassland and cropland is used for animal feed to feed over 200 million farm animals. Germany has 20 million pigs, 10 million cattle incl. 3,7 million dairy cows which produce 30 million tons of milk per year. More than 13 billion eggs are produced annually. In addition to animal products, agriculture mainly produces bread grain, potatoes, sugar beet, oilseeds, fruit and vegetables for human consumption. There is also farmland for the production of bioenergy and organic raw materials. Farm sizes range from small to very large, depending on the region, meaning that farmers' requirements vary significantly.



Don't miss the
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Organized by Young EAAP

• THE SESSION



Wednesday, 9th September, 14.00-18.00



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An interactive session to build a strong CV and skillset for your future career, learn how to create and communicate (non)scientific impact, and take part in engaging workshops on hot topics (AI, animal welfare, leadership, and work- life balance)

• THE SOCIAL EVENT



Wednesday, 9th September, 18.30



Meeting point: Room of the YEAP session

A guided walk along the Port of Hamburg, including a visit to the Elbphilharmonie Plaza for stunning panoramic views, followed by a casual social gathering to connect, share ideas, and relax after the day's sessions.

• THE LUNCH EVENT



Monday 7th September - Thursday, 10th September, lunch slot



Congress Center Hamburg

Lunch with experienced researchers from academia and industry: an opportunity to gain insight into career paths in an informal setting over nice food!

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Several research centres and companies working on future-oriented solutions are developing new technologies to make agriculture even more environmentally friendly and efficient. There are more than 30 research locations in Germany, that deal with various aspects of agricultural science and veterinary medicine. The most important of these are universities, federal research institutes, Leibniz Institutes and other research facilities. These institutions contribute to gaining scientific knowledge and developing decision-making instruments for policy and practice.



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The Port of Hamburg is one of the largest transshipment ports in the world and, together with the international airport, makes Hamburg an important logistics location. Economically and scientifically, the metropolis is particularly important in the fields of aerospace technology, life sciences and information technology as well as for the consumer goods industry and as a media location.



For many people Hamburg is a metropolis with a high quality of life and various exciting contrasts that make this city truly unique. In Hamburg, tradition meets modernity, classic meets pop culture and Hanseatic serenity meets cosmopolitan charm. Year after year numerous tourists discover the world-famous musicals, the impressive HafenCity district, the futuristic Elbphilharmonie concert building, the Miniature Wonderland and much more. There is an enormous variety of opportunities for leisure time: stylish bars, cozy pubs, top-of-the-line restaurants, luxury shopping districts and iconic sites like the world-famous Reeperbahn offer inexhaustible resources for entertainment and afterwork activities. Work hard, then celebrate – all in the middle of the city!

<https://www.hamburg-convention.com/en/>

How to get to Hamburg?

As Germany's second-largest city and one of Europe's most important transport hubs, Hamburg is easy to reach by plane, train and car. The CCH – Congress Center Hamburg is centrally located next to the Dammtor railway station and within walking distance of the city centre, making it easily accessible by public transport, taxi, bicycle or on foot.

By plane

Hamburg Airport is located approximately 10 kilometres north of the city centre and offers numerous domestic and international flight connections. Major European hubs such as Frankfurt, Munich, Vienna, Zurich, Amsterdam, London and Paris are served by multiple daily flights, providing convenient access from destinations worldwide. Several car rental companies operate directly at the airport. Thanks to excellent transport links, the city centre can be reached quickly and conveniently by public transport, taxi or car.

By train

Hamburg Dammtor station is located directly next to the CCH – Congress Center Hamburg and can be reached within a few steps. Hamburg Central Station offers excellent national and international rail connections, including high-speed services from Berlin, Frankfurt, Munich, Copenhagen, Vienna and Zurich.

By car

Hamburg is connected to Germany's motorway network via the A1, A7 and A24 motorways. The CCH is clearly signposted from the main access roads into the city. Several public parking facilities are available in the immediate vicinity of the congress centre. Visitors arriving by car should allow extra travel time during peak traffic hours.

By public transport

Hamburg has an extensive public transport network operated by the HVV (Hamburger Verkehrsverbund), including S-Bahn, U-Bahn, buses and harbour ferries. The CCH – Congress Center Hamburg is located directly next to Hamburg Dammtor station, which is served by the S-Bahn lines S2 and S5 as well as regional and long-distance trains. From Hamburg Central Station, Dammtor can be reached in just a few minutes by S-Bahn or regional train. From Hamburg Airport, the S1 line provides a direct connection to the city centre and Hamburg Central Station in approximately 25 minutes. Numerous bus routes also serve the area around the congress centre, offering convenient connections to hotels, attractions and other parts of the city.

By bike

Hamburg's extensive cycling network makes travelling by bicycle easy and convenient. Rental bikes are available through the StadtRAD Hamburg bike-sharing system and at various rental stations throughout the city. Bicycle parking facilities are available near the CCH, allowing visitors to reach the venue comfortably while exploring Hamburg in an environmentally friendly way.

Places to see in Hamburg



ELBPHILHARMONIE

The Elbphilharmonie Concert Hall is not only the city's cultural centre of attraction but also shines as a symbol of Hamburg. The Elbphilharmonie represents an unprecedented synthesis of the arts – architecture, music and the unique location in the middle of the Hamburg harbour. The concert hall was designed by the Swiss architects Herzog & de Meuron. The combination of red brick walls and filigree glass construction makes the concert hall the epitome of Hamburg's self-image. With its curved glass panels, which are curved and cut in sections, it captures the reflections of the sky, the water and the city. The publicly accessible Plaza is a central meeting place in the Hanseatic city. The world's longest curved escalator (80 metres) takes visitors up to a height of 37 metres. Here on the Plaza, the 360° panorama of the city fascinates every visitor.

SPEICHERSTADT

For centuries, coffee, tasty spices, carpets and exotic goods from all over the world were stored in the Speicherstadt. The City of Warehouses is the largest contiguous historic warehouse complex in the world and has been officially listed as a UNESCO World Heritage Site since 2015. History at every corner. Today, many of these impressive brick buildings still serve as warehouses, while others have become home to innovative companies and exciting attractions — blending heritage with modern life.

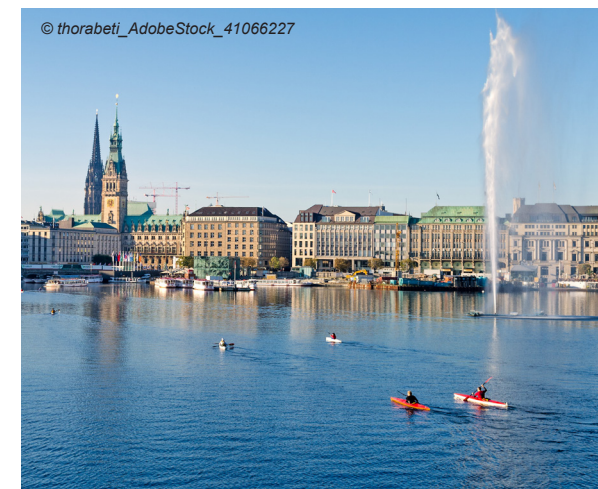


ST. PAULI-LANDUNGSBRÜCKEN

The St. Pauli Landungsbrücken is an impressive ensemble of buildings along the Elbe River and also an important transportation hub. Once a landing stage for steamships, the site now serves as a stop for the S-Bahn and U-Bahn, sharing its name with the station. Additionally, numerous boats depart from the Landungsbrücken for harbor tours and catamaran trips to Helgoland. Visitors attending musicals can take HADAG Ferry 62 from the Landungsbrücken to the opposite side of the Elbe.

HAMBURG TOWN HALL

Built between 1886 and 1897, Hamburg Town Hall impresses with its stunning architecture and dominates the heart of the city. The magnificent sandstone building houses the city's senate and parliament. In sharp contrast to the understated Hanseatic style, the Town Hall stands out with its richly decorated façade, flanked by 20 statues of emperors.



JUNGFERNSTIEG

This is the heart of the city centre for many locals and tourists: the Jungfernstieg – a diverse connection between the Inner Alster and the surrounding shops and attractions. For Hamburg residents, the historical importance of the promenade plays a major role: In the past, families came here on Sunday to walk and introduce their unmarried daughters (“Jungfern”) – hence the name. Even today, the Jungfernstieg is very special: It is enjoyable to be right on the water – the Inner Alster, make a date at this central location and start shopping in the nearby department stores – especially the famous and traditional Alsterhaus as well as the smaller, more refined shops.

MINIATUR WUNDERLAND

Miniatur Wunderland in Hamburg's Speicherstadt is an absolute must-see — not only for railway enthusiasts and globetrotters, but for anyone visiting the city. More than 1,100 trains with over 10,000 wagons as well as 137,000 trees, 289,000 figures, 10,250 cars, 47 airplanes in the air, 16,138 meters of tracks, 4,340 buildings and bridges were set up by more than 300 employees in over 990,000 hours of loving detail work. In this superlative model construction landscape, you will see realistic train operations completely controlled by computer. In this miniature world, day turns into night every 15 minutes, creating a truly magical experience. Recently, Miniatur Wunderland has expanded to include Hamburg's HafenCity and other fascinating highlights.



ST. PAULI AND STERNSCHANZE

Club culture and live music have deep roots in St. Pauli — a district brimming with stories and legends. Numerous theatres, stages and live concert venues form the lively heart of subculture in Hamburg. One of the most famous stories is certainly that of the Beatles, who took their first serious steps on stage on Hamburg's “Kiez”. In the early 1960s, the Beatles got their first engagement at a live music club near the Reeperbahn and started their global career from the Hanseatic city.

CCH - CONGRESS CENTER HAMBURG



CCH – Congress Center Hamburg

Congressplatz 1
D- 20355 Hamburg

Welcome to one of Europe's most advanced event venues in the heart of Hamburg: CCH – Congress Center Hamburg. Whether you're here to learn, connect, or explore, this is the place to make the most of your congress experience. The CCH is therefore an excellent venue for the 77th Annual Meeting of the EAAP. It offers comfortable spaces to relax, connect, and enjoy coffee breaks, it is easily accessible from the city centre. It is surrounded by Planten un Blomen, one of the most popular green areas in the city, known for its beautiful gardens, fountains, and open spaces, where people enjoy spending leisure time. The Dammtor mainline train station with access to highspeed and commuter trains is just a few steps away. Even the city's airport is located no more than 25 minutes away and well connected to the public transportation network. And, for your comfort, more than 100 hotels of all categories are located nearby.

<https://www.cch.de/en/venue/the-cch>



SYNETICS – *The Perfect Fit*

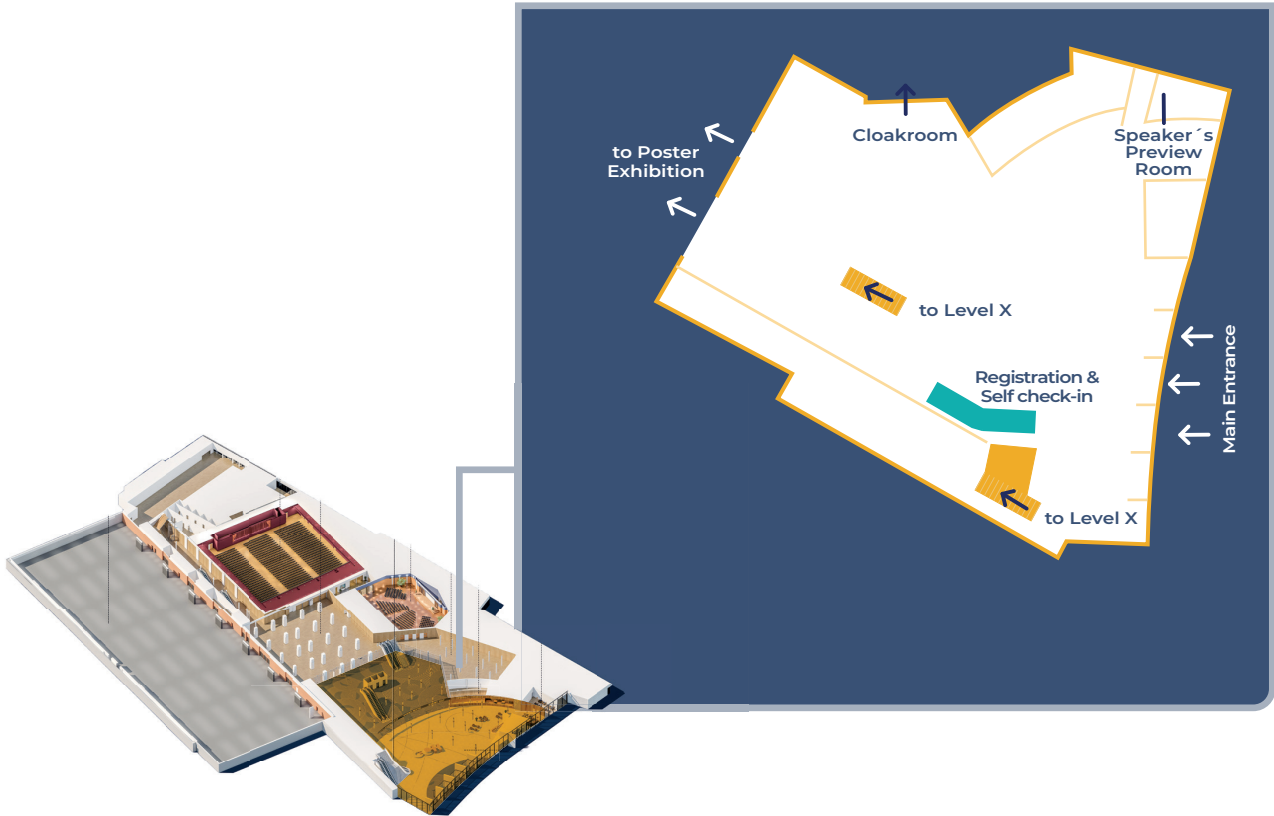
**Achieve your business goals
with us and enjoy a better work
life balance**

www.synetics.world

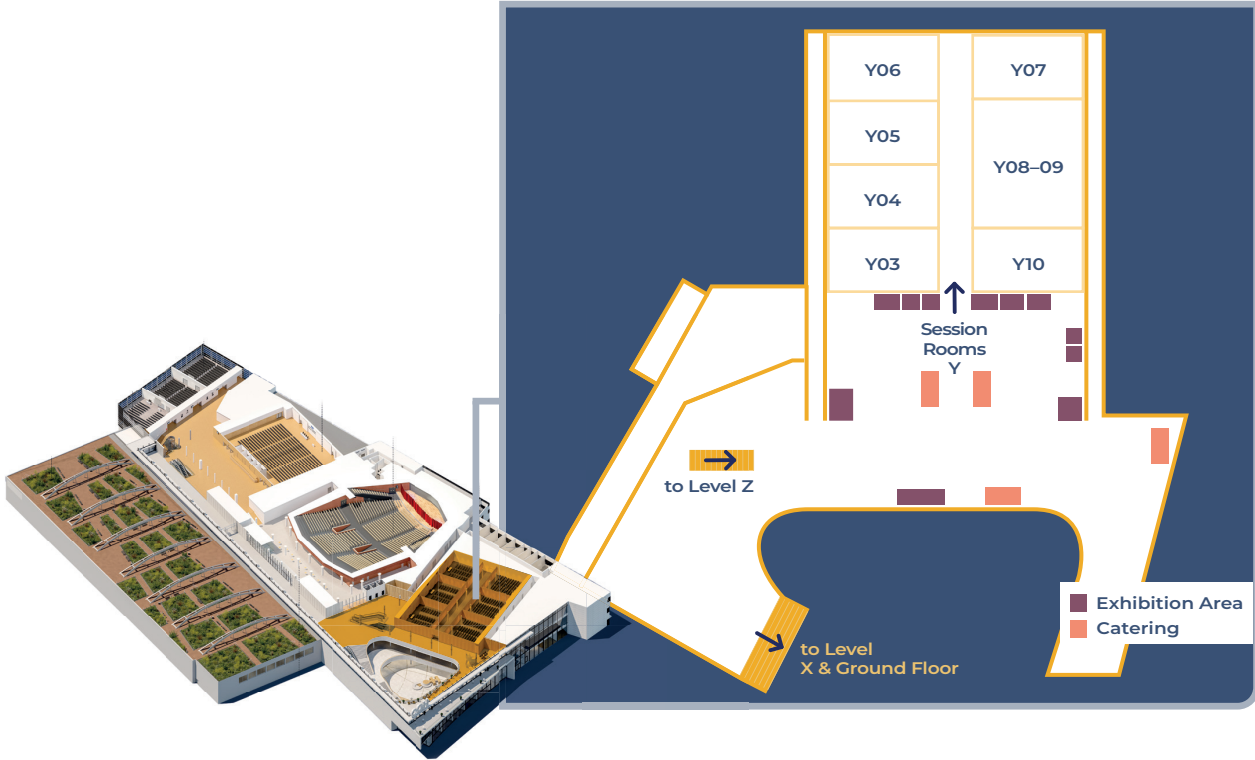
Join us on



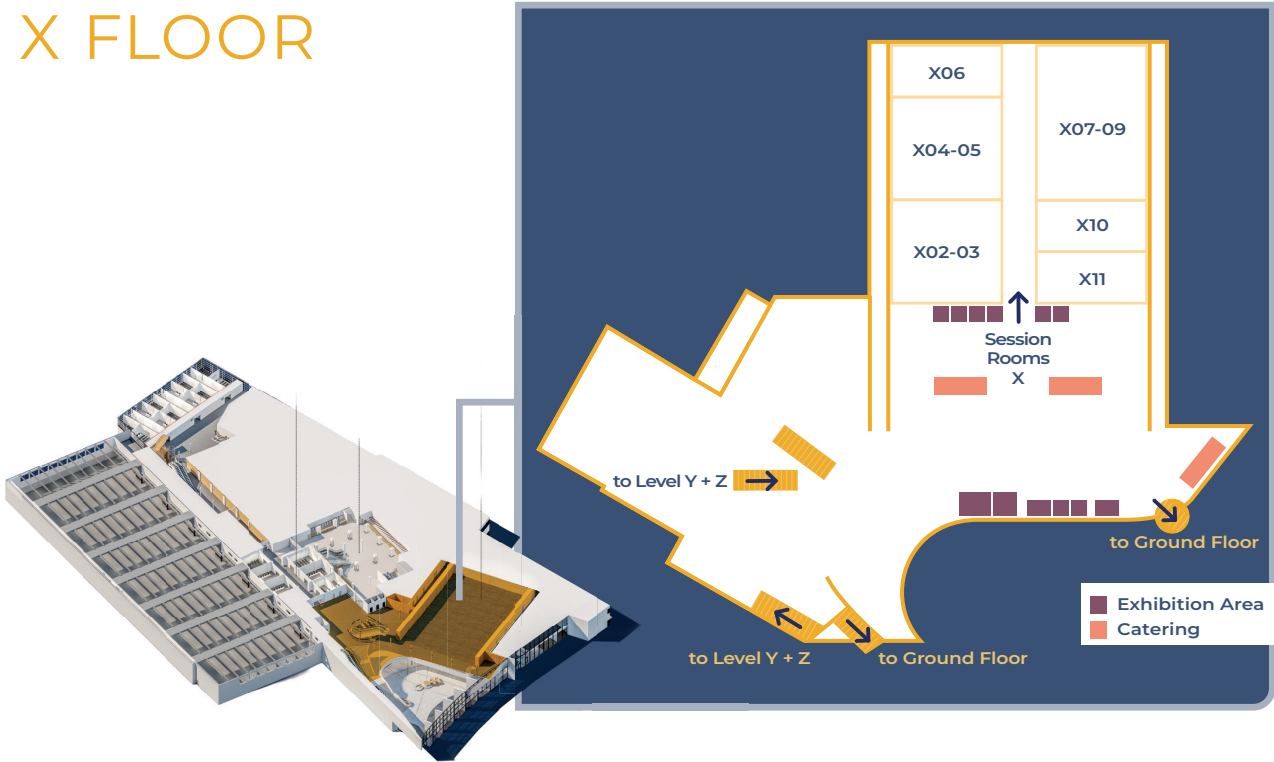
GROUND FLOOR



Y FLOOR



X FLOOR



Z FLOOR



X FLOOR



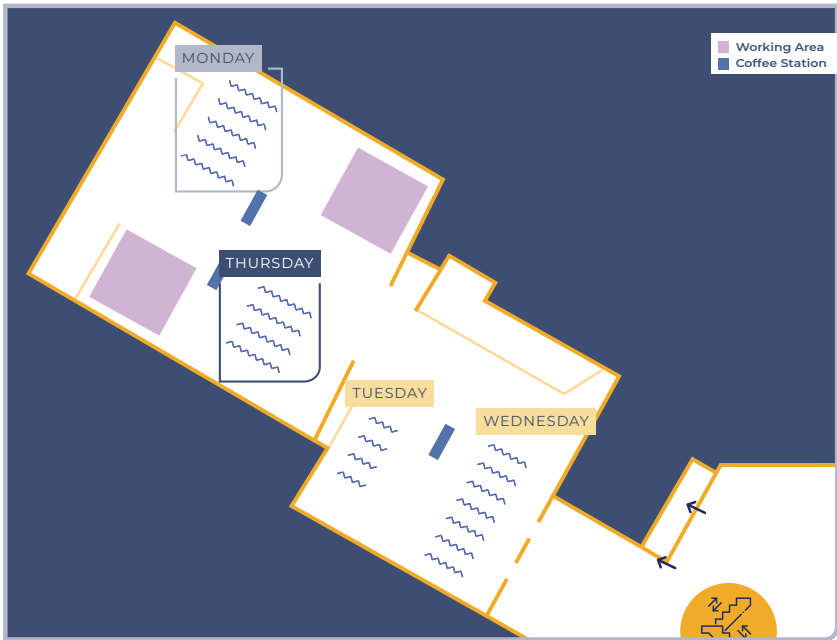
COMPANY / INSTITUTION	FLOOR	BOOTH-NO.
Animal	X	1
ASAS	X	2
EAAP 2027	X	3
EAAP Secretariat	X	4
Twist Bioscience	X	5
Adisseo France S.A.S.	X	6
Edinburgh Genetics Limited	X	7
GGI-SPERMEX GmbH	X	8
VHLGenetics	X	9
BPC Instruments AB	X	10
Suzhou LASO Biotech Co., Ltd.	X	11
C-Lock Inc.	X	12

Y FLOOR



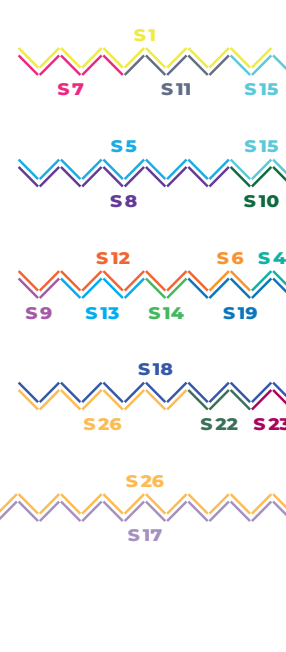
COMPANY / INSTITUTION	FLOOR	BOOTH-NO.
vit Verden / BRS / IFN Schönow	Y	13
CCPA	Y	14
ED&F MAN	Y	14a
ThermoFisher Scientific	Y	15
Frontiers	Y	16
Neogen	Y	16a
Ecolab Srl	Y	17
Wageningen Academic	Y	17a
CABI	Y	18
CAISLEY International GmbH	Y	19
Illumina	Y	20

POSTER SESSIONS – HALL 3



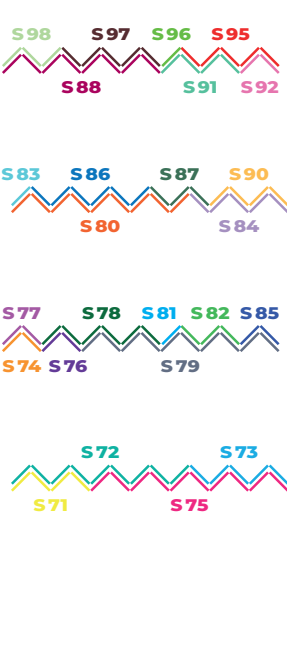
MONDAY

SESSION	NO.
1	1-12
4	1-2
5	1-10
6	1-2
7	1-5
8	1-10
9	1-2
10	1-3
11	1-5
12	1-9
13	1-4
14	1-2
15	1-6
17	1-14
18	1-13
19	1-5
22	1-3
23	1-2
26	1-22

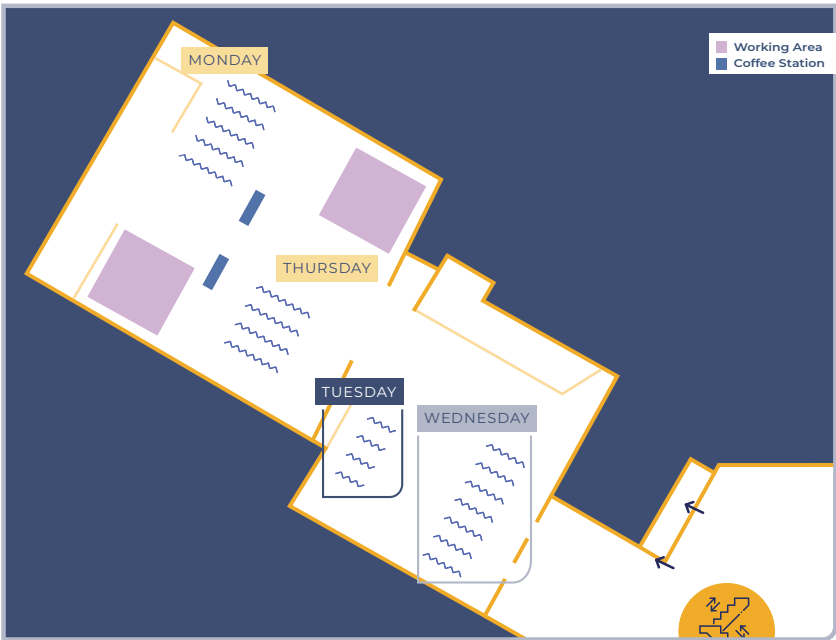


THURSDAY

SESSION	NO.
71	1-4
72	1-9
73	1-5
74	1-2
75	1-10
76	1-2
77	1-2
78	1-6
79	1-10
80	1-9
81	1
82	1-3
83	1
84	1-5
85	1-2
86	1-6
87	1-3
88	1-8
90	1-4
91	1-4
92	1-2
95	1-5
96	1
97	1-5
98	1-3

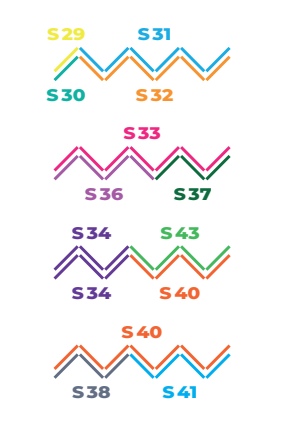


POSTER SESSIONS – FOYER HALL 3



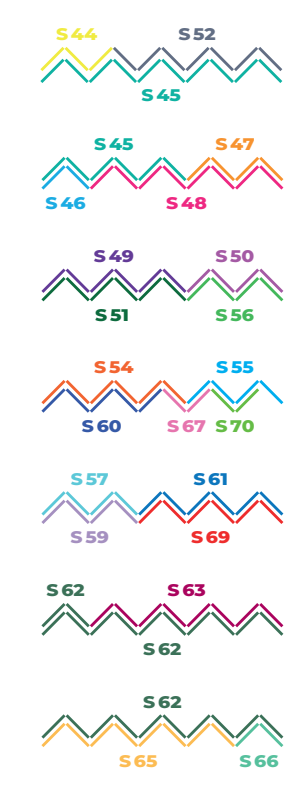
TUESDAY

SESSION	NO.
29	1
30	1
31	1-6
32	1-6
33	1-7
34	1-6
36	1-4
37	1-3
38	1-3
40	1-11
41	1-4
43	1-4



WEDNESDAY

SESSION	NO.
44	1-3
45	1-16
46	1-2
47	1-4
48	1-8
49	1-6
50	1-4
51	1-6
52	1-7
54	1-6
55	1-4
56	1-4
57	1-4
59	1-4
60	1-5
61	1-6
62	1-22
63	1-8
65	1-8
66	1-2
67	1-2
69	1-6
70	1-2





The German Livestock Association (BRS), headquartered in Bonn, Germany, serves as the national umbrella organization representing the cattle and pig production sectors. Bringing together a diverse membership of legal entities across five specialized groups – dairy cattle, dual-purpose breeds, quality and performance testing, beef cattle, and pigs – BRS provides a unified platform for advancing German livestock breeding and animal husbandry.

As a non-commercial association, BRS fulfils its mandate through several core activities. It develops standardized rules and principles to ensure consistency across the industry, advocates on behalf of its members before policymakers, regulatory authorities, and national and international organizations, and fosters close collaboration with the scientific community. A particular emphasis is placed on supporting research initiatives spanning all disciplines of animal breeding and husbandry, as well as driving continuous improvements in livestock production quality.

Through this integrated approach, BRS bridges the gap between industry practice, policy, and science, positioning itself as a key stakeholder in shaping the future of sustainable and high-performance livestock production in Germany and beyond. The association welcomes both ordinary voting members and extraordinary non-voting members who share its commitment to advancing the sector.



IFN Schönow GmbH is a service provider in the field of animal breeding. We specialise in modern genetic diagnostic analyses, molecular diagnostics and innovative laboratory services for livestock and semen analyses conducted in our reference laboratory. Drawing on our extensive scientific expertise, we support customers in the fields of animal breeding, research and biotechnology. Our range of services includes high-throughput SNP genotyping, parentage verification, genetic trait testing and the diagnosis of hereditary defects. Our portfolio is complemented by whole-genome sequencing and custom-developed genetic tests.

To ensure the highest standards of quality and efficiency, we rely on state-of-the-art technologies and standardised processes. These include established platforms such as the Illumina Infinium and the Thermo Fisher Axiom workflow, enabling us to process a wide range of commercial and custom SNP arrays. Secure data transfer ensures the safe handling of sensitive genetic information.

In addition to standardised analyses, we offer bespoke genetic projects tailored to the specific requirements of our customers.

Quality, safety and international standards are at the heart of everything we do. Our laboratory is accredited in accordance with DIN EN ISO/IEC 17025, holds ICAR certification and regularly participates successfully in ISAG ring tests. This enables us to guarantee reliable results of the highest standard.



Founded in 1982, Bocholt-based CAISLEY International GmbH is a globally leading specialist in identification systems for agriculture and industry. Since 1989, the globally oriented company has been managed by Reinhard Nehls.

Its success is built on continuous, practice-oriented product innovations. Following the initial successful PRIMAFLEX and MULTIFLEX product lines, CAISLEY introduced laser-marked ear tags alongside manufacturing its own laser-marking systems. A major milestone in modern livestock identification followed with the ICAR-approved FLEXOPLUS ear tags. The globally renowned FLEXOplusGENO ear tags revolutionized the market, enabling identification and tissue sampling for disease control or genotyping in a single step.

In recent years, electronic livestock identification has become the main focus. The ultra-lightweight FLEXOTRONIC ear tags offer maximum performance. Through close collaboration with farmers, CAISLEY constantly optimizes these technologies to maximize component durability and simplify daily agricultural routines. Finally, the pioneering GENOTRONIC ear tags efficiently combine both electronic identification and tissue sampling into one single product.

Today, the medium-sized company holds an outstanding position in the international market. CAISLEY exports a substantial share of its production to over 70 countries worldwide, combining technical know-how with consistent market orientation for the future.



TECHNA is an independent international group with over 60 years of expertise in precision nutrition, rearing techniques, and natural health. Operating across nearly 50 countries with 11 subsidiaries (4 in France, 7 overseas), it provides expert consultancy, high added-value products, and specialized software to feed manufacturers and farmers. Driven by scientific innovation, the group enhances the technical, economic, and environmental performance of the poultry, ruminant, swine, aquaculture, rabbit, and horse sectors. TECHNA delivers sustainable solutions to optimize feed efficiency, address health challenges, and promote preventive, alternative production methods, driving the performance of its partner-customers.



At Illumina, our mission is to improve human health by unlocking the power of the genome. Our sequencing by synthesis chemistry is used to generate high-accuracy DNA and RNA sequence data in studies around the globe. Our microarrays also provide accurate, high-throughput genotyping for a range of applications. The innovative products that we provide touch almost every area of biology, including agriculture. Illumina offers a range of sequencing and microarray tools that support food security and conservation efforts. Knowing human health starts with an adequate and nutritious food supply and a safe and sustainable environment inspires us to push the boundaries of what is possible in genomics research and to drive innovation in agriculture.



IT Solutions for Animal Production (vit) is a leading German information and data service provider specializing in livestock breeding, genetic evaluation, and agricultural data management.

vit is internationally recognized for its expertise in breeding value estimation and genetic evaluation systems, particularly in dairy cattle breeding. The company develops and operates highly sophisticated evaluation models, including Single-Step genomic evaluations within one of the world's largest Holstein populations, comprising more than 1.6 million genotyped cows. In addition, vit is also at the forefront of equine breeding, providing advanced genomic breeding value estimation and mating programs for horse breeding organizations. Through customized technical solutions for breeding organizations and farmers, vit enables the efficient use of information generated from an integrated database comprising of 120 million cattle through its wide range of practical applications and digital tools.

In addition, vit provides comprehensive services such as herd management systems, animal identification, performance recording, genomic data processing, and agricultural analytics with about 150 experts in animal breeding and management and IT services. The company collaborates closely with breeding associations, research institutions, and international partners to ensure high-quality data standards and scientifically robust evaluation procedures.

By combining agricultural expertise with advanced bioinformatics, quantitative genetics, and digital innovation, vit contributes significantly to the advancement of sustainable livestock breeding and precision agriculture. The company has established itself as a trusted partner in the global animal breeding industry and a driving force behind the future of genomic selection and smart farming technologies.

„Through the genetics of the Phönix Group, we enhance the performance of our herds and ensure sustainable cattle breeding.“

Sebastian Guntz,
Fischbeck

Innovative.
Sustainable.
Efficient.

→phoenix-genetics.de



Practical Infos - Useful Information

OFFICIAL LANGUAGE

The official language at the EAAP Annual Meeting is English. No translation will be provided.

WIFI

Name: eaap2026

Password: **Illumina**

OPENING HOURS

Registration Counter & Speaker's Preview Room

Sunday, 6 September	14:00-19:00
Monday, 7 September	07:00-19:30
Tuesday, 8 September	07:30-18:00
Wednesday, 9 September	07:30-18:00
Thursday, 10 September	07:30-18:00

Exhibition

Monday, 7 September	10:00-22:00
Tuesday, 8 September	10:00-16:30
Wednesday, 9 September	10:00-16:30
Thursday, 10 September	10:00-16:30

Cloakroom

Monday, 7 September	07:30-23:00
Tuesday, 8 September	07:30-18:30
Wednesday, 9 September	07:30-18:30
Thursday, 10 September	07:30-18:30

SPEAKER'S PREVIEW ROOM

Room: Elbe Lounge, Ground Floor

The room (Elbe Lounge) where you can submit and prepare for your presentation is located on the ground floor.

If you have not yet uploaded your presentation in advance using the link we sent you, or if you would like to make changes, you can do so in the Elbe Lounge. Please note, that changes can be made up to 60 minutes before the start of your presentation.

POSTER EXHIBITION

Room: Foyer Hall 3 and Hall 3, Ground Floor

You'll find the poster exhibition on the ground floor in the foyer of Hall 3 and in Hall 3 itself.

The posters are organized as follows:

Poster Session Monday and Thursday in Hall 3

Poster Session Tuesday and Wednesday in the foyer of Hall 3

The staff at the Poster Help Desk will be happy to help you find the correct poster wall.

The poster number will be displayed at the top of the designated panel. Mounting materials will be provided.

POSTER SESSION

Posters will be presented in portrait format (A0, 118,9cm x 84,1 cm) with the title, the addresses of authors, the picture of the presenting author and the scientific content (introduction, methods, results, discussion, conclusion).

The poster should be printed by the participants.

During the poster session authors should be in attendance at their poster.

Please remove your poster until Thursday, 10 September 16:00.

POSTER PRINTING – OPTIONAL SERVICE FOR CONFERENCE PARTICIPANTS

If you prefer not to travel with your poster, we recommend using the local printing service offered by **Copy Keller**, located at **Kleiner Schäferkamp 56, 20357 Hamburg**. You can submit your poster file in advance and collect the printed poster upon arrival in Hamburg. Below you will find the details for file submission and production:

FILE FORMAT AND PRINT SIZE

Only PDF files in the final print size (A0) are accepted. PowerPoint or Apple Keynote files cannot be processed.

PAPER OPTIONS AND PRICING

Matte photo paper: 30 € per A0

PRODUCTION TIME

Please send your files as early as possible. Production may take up to two working days.

PICK-UP LOCATION AND OPENING HOURS

Printed posters can be collected at:

Copy Keller

Kleiner Schäferkamp 56

20357 Hamburg

OPENING HOURS:

Monday to Friday: 10:00–18:00

FILE SUBMISSION AND PAYMENT

Please email your PDF file to info@copy-keller.de. Include the name of the person who will collect the poster, so it can be properly labeled. Payment is made upon collection, either in cash or by card. If you would like your order delivered to the CCH, please arrange this directly with the Copy Shop. Any delivery charges will be billed directly by the Copy Shop.

Please note that we are not responsible for posters that are printed late or incorrectly. We ask that you contact the copy shop directly.

CATERING

Level X, Y and Z, Poster Exhibition

Catering will be available during the specified break times on Levels X and Y. You will also find additional beverage stations in the poster exhibition area and on Level Z.

If you have any food intolerances, please feel free to let us know.

BADGES

Participants and exhibitors are kindly requested to wear their name badge during the entire conference and social events. No admittance to the scientific sessions and to the social events is allowed without badge. No exception will be made.

PASSPORT AND VISA

Entry formalities for Germany vary according to the country of origin. Nationals of European Union (EU) and the European Economic Area (EEA), as well as third-country nationals holding a residence permit of a Schengen State, don't need a visa to enter Germany. All non-EU citizens are asked to contact their local embassies for specific requirements.

OFFICIAL INVITATION AND CERTIFICATION

An official invitation letter will be sent upon request to assist in meeting administrative requirements. However, this invitation implies no obligations, financial or otherwise, by the EAAP Organizing Committee.

A certificate of attendance will be available for all delegates after the conference.

LIABILITY AND INSURANCE

The Organising Committee cannot accept liability for personal accidents or loss or damage to private property of participants and companions. Participants are advised to acquire their own personal travel and health insurance for their trip. We kindly recommend arranging personal travel and health insurance prior to your trip.

HEALTH AND EMERGENCY

In case of emergency, landline or mobile phone users can call 112 (Ambulance) or 110 (Police) to be connected to the relevant department.

CURRENCY AND MONEY EXCHANGE

The monetary unit of Germany is Euro. Currency can be exchanged at the airport, at bank offices. All major credit cards (MasterCard, Visa and American Express) are accepted by most hotels, restaurants and shops.

TIME ZONE

The summer time Zone in Germany is CEST or UTC/GMT + 2 hours.

CLIMATE

The weather in Hamburg in September is usually pleasant and sunny, but an umbrella and a warm pullover might come in handy. The average daytime temperature is 18-20°C, while the night-time temperature is 10-11°C. For more information on weather conditions, please visit <https://www.accuweather.com/en/de/hamburg/20095/daily-weather-forecast/178556>

ELECTRICAL SUPPLY

Electricity is supplied at 220-230 volt A/C, 50 Hz. Outlets are of the two-round-pin type.

An EAAP 2026 app will be available to all registered delegates prior to the conference. It will provide comprehensive information about the conference, the program and abstracts.



**Rinderbesamungs
Genossenschaft
Memmingen eG**

**GENOSSENSCHAFTEN
MACHEN'S BESSER.**
FÜR DICH, FÜR UNS, FÜR MORGEN.



Der größte Braunvieh-
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email: info@rbgmm.de
Tel. +49 (0)8331/961590

Technical tours on 11 September 2026

TOUR 1

Price: € 90,00 - Departure: 8:00- Return: 17:00



CATTLE BREEDING I: PRACTICE & INSEMINATION CENTER

This technical tour offers exciting insights into modern cattle breeding in northern Germany. The tour begins with a visit to a high-performing dairy farm that has been actively and successfully involved in the breeding scene for many years. The focus will be on breeding strategies, herd management, and the practical implementation of genetic progress in daily farm operations. The second stop takes you to Rinderzucht Schleswig-Holstein in Ruhwinkel, where the semen production facilities and the associated laboratory will be presented. You will gain exclusive insights into semen collection processes, quality control, and modern laboratory techniques – from breeding concepts to practical application. An ideal tour for anyone interested in breeding practice, innovation, and applied genetics experienced firsthand.

TOUR 2

Price: € 90,00 - Departure: 8:00- Return: 17:00



CATTLE BREEDING II: CALCULATION CENTRE FOR BREEDING AND MANAGEMENT & INSEMINATION CENTER

The city of Verden hosts two major players in International Dairy Cattle Breeding

- Synetics as largest breeding organisation in Germany and France with its headquarter and AI station
- vit (IT Solutions for Animal Production) as one of the largest and well renowned calculation centre for Breeding and Management of dairy cows.

You get first-hand information from two very successful dairy cattle service organisations and see the implementation of the services in one modern, very well managed dairy farm with about 750 Holstein cows.

TOUR 3

Price: € 90,00 - Departure: 8:00- Return: 17:30



WATER BUFFALO AND DAIRY GOAT FARMS AND HISTORIC OLD TOWN WISMAR

At the first stop, you will visit a goat farm with ~1,200 Saanen goats, including the kids raising and the milking parlor. You will learn details about management, feeding and sales markets. After a short travel to the Baltic Sea coast, we visit a farm, where water buffaloes are kept on salt marshes and farmed organically. Then, a short drive brings you to Wismar, where you will have the opportunity to enjoy a hot lunch in a historic brewery and take a guided tour through the old town.

TOUR 4

Price: € 90,00 - Departure: 8:00- Return: 18:00



RESEARCH FARM HÜLSENBERG (SCHAUMANN)

Gut Hülsenberg brings practical experience, research, and communication together under one roof. Over the past several decades, the estate has evolved into an internationally recognized center for research and knowledge exchange. Your visit will begin with an introduction to the intensive, practice oriented research trials and the ISF laboratory, where new products and product groups are developed in the fields of animal nutrition, feed preservation, and biogas. After lunch, you will tour the dairy farm, home to around 222 cows and equipped with state of the art technology. Finally, we visit the Segeberg Limestone Mountain (Kalkberg), well known as one of the most beautiful open-air theaters.

TOUR 5**Price: € 90,00 - Departure: 8:00- Return: 17:00**

© Mecklenburger Landputz GmbH

**ORGANIC TURKEY
FARMING, SAUSAGE
PRODUCTION AND
LUDWIGSLUST
PALACE**

On this tour, you'll gain insight into the operations at the Zieslütbe organic farm. After a welcome from the managing director, the farm manager will lead you on a tour of the facility. You'll then proceed to Severin's free-range turkey processing facility, where—after a warm lunch—you'll tour the production areas, including cutting, packaging, and sausage production. At the end of the tour, you'll have the opportunity to purchase the farm's products at the farm store.

TOUR 6**Price: € 90,00 - Departure: 8:00- Return: 17:30**

© Rikka Mettinen

**GERMAN HORSE
BREEDING AND
HORSE HUSBANDRY**

Experience German horse breeding firsthand with a visit to the Holsteiner Breeding Association in Elmshorn. In addition to extensive insights into the breeding and care of Holsteiner horses, you will also learn fascinating facts about the region's traditional and endangered Schleswiger Kaltblut. The next stop on our tour will be Gut Schönweide, which is located in a protected landscape area. Gut Schönweide breeds dressage horses for sport.

TOUR 7**Price: € 90,00 - Departure: 8:00- Return: 18:00**

© Gerold Rahmann, Thünen Institut für Ökologischen Landbau

**ORGANIC FARMING
RESEARCH: THÜNEN-
INSTITUT OF
ORGANIC FARMING
AND TRENTHORST:
ORGANIC ANIMAL
HUSBANDRY IN A
SYSTEM APPROACH:
DAIRY, CHICKEN, PIGS**

After a brief overview about Thünen-Institut (<https://www.thuenen.de/en/>) and the Thünen-Institut of Organic Farming you will experience during Institute a guided tractor trailer tour the experimental sites Institute on the station (600 ha) with main focus on dairy cattle, chicken and pigs. After the tour there will be a lunch break and a discussion at the headquarter manor house. Finally, we visit the city of Lübeck. As the capital of the Hanseatic League, Lübeck was one of the most important cities in Northern Europe in the 13th and 14th centuries. The preserved areas of Lübeck's old town, with over a thousand cultural monuments, have been a UNESCO World Heritage Site since 1987.

TOUR 8**Price: € 90,00 - Departure: 8:00- Return: 15:00**

© Arche Warder

**ARK WARDER:
A FUTURE FOR
THREATENED
DOMESTIC ANIMAL
BREDS**

Ark Warder – conveniently located between Warder and Brahmsee lake in the middle of Schleswig-Holstein – is Europe's largest center for rare and endangered domestic animals. On 40 hectares more than 1,200 animals from almost 86 different breeds can be found, including black and white Angler Saddleback pigs, Telemark cattle, Poitou-Donkey and Leinegans. In former times these breeds were common. Today, many of these breeds have less than 200 animals remaining worldwide. This is a threateningly small number, because the minimum numbers required to properly maintain a breed is between 5,000 to 7,500 animals. After a short presentation about the concept of Zoo Ark Warder, we offer a guided Tour of Zoo Ark Warder and a guided tour of the Visitor Center: „Domesticaneum“.

TOUR 9**Price: € 90,00 - Departure: 8:00- Return: 18:00**

© olivervoigt-dike-2036394_pixabay

TOWARDS THE WORLD HERITAGE WADDEN SEA – AQUATIC WILDLIFE, AQUACULTURE AND DIKE SHEEP FARMING

Approximately 90 mins drive from Hamburg, we will visit the small fishing town Büsum in Dithmarschen, Europe's largest closed cabbage-growing area, nicely located at the Wadden Sea. We are guided around a typical dike sheep farm and learn, how animal husbandry contributes to coastal protection. At the Aquaculture Unit of the Fraunhofer Research Institution for Individualized and Cell-Based Medical Engineering, cutting edge insights into Marine Aquaculture are presented. And finally, a visit of the Institute of Terrestrial and Aquatic Wildlife Research will guide you into the world of Marine mammal research.

TOUR 10**Price: € 90,00 - Departure: 8:00- Return: 17:00/18:00**

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INSECT FARM AND RESEARCH INSTITUTE FOR FARM ANIMAL BIOLOGY (FBN)

You will visit ENTAVA GmbH's 720 m² insect breeding facility, where the company produces high quality, protein rich insect meal from yellow mealworms (*Tenebrio molitor*) for both human and pet nutrition. During the tour, you'll gain fascinating insights into the breeding and processing areas — and you'll even have the chance to taste the finished products. Afterwards, you will go to the Research Institute for Farm Animal Biology (FBN) in Dummerstorf near Rostock, where you will be given a tour to various animal experimentation facilities, e.g. for black soldier fly larvae, ruminants and pigs. The tour proceeds with a visit of modern technical and lab instruments used in livestock research. During the visits or during lunch you'll have the opportunity talk to scientists and enlarge your network.

BOOKING CONDITIONS

Final information on departure times and meeting point will be published on the congress website and sent to each participant per email in advance.

All tours take place on September 11th. Please note that only one registration is permitted. The chosen tour can be added to your registration during the online signup process. You can select up to three tours, all of which are offered at the same price. If the minimum number of participants for your chosen tour is not reached, the second tour will be booked automatically. Space is limited, and spots will be filled on a first-come, first-served basis. Register early to secure your place.

A lunch bag will be provided on each tour.

Only one accompanying guest per participant is allowed.

The tours offer convenient round-trip transportation, starting and ending at Hamburg, the congress venue.

On the way back, the bus may stop at the airport. Please discuss this with your tour guide and the bus driver at the start of the tour. You can store your luggage on the bus during the tour.

Please arrive 15 minutes prior to departure.

Rates include VAT.

LIMITED PARTICIPATION

Once the maximum number of participants has been reached, no right to participate may be asserted. If a Technical Tour has to be canceled, the participant will be rebooked to their next preference, which they specified during the registration process. Participation in parts of the event that are restricted in numbers can be cancelled without charge before July 1, 2026. After that, 100% cancellation fees will apply.

The participant retains the right to show that the actual costs or reduction of value were lower than the flat fee above.

ACCOMPANYING PERSONS TOURS

A wide range of tours and experience are available for all accompanying persons wishing to discover

Hamburg and North-Germany.

At this link you can purchase your tour: <https://www.hamburg-travel.com/see-explore/round-trips-tours/>

Evening Program

Tickets for the evening program can be purchased through the registration. Participants and accompanying persons are invited to join!



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WELCOME RECEPTION

Monday, 7th September, at 18:30 – 22:00

To kick off our congress, we're inviting all participants to our Welcome and Award Ceremony, that will take place on Monday, September 7th, at 18:30-22:00 in the Auditorium of Hall Z. This ceremony marks the official opening of the conference and provides an opportunity to recognise and celebrate the outstanding contributions made by members of our scientific community and by the industries that supported in several ways the organization of the EAAP Annual Meeting. During the ceremony, we will be presenting several prestigious awards, honouring individuals whose work has made a significant impact in their respective fields. The Welcome and Award Ceremony will be followed by a light cocktail that will be organized on the rooftop garden of the Congress Center. The Get Together is open to all congress participants at no cost. Come and connect with fellow attendees, and kick off a few inspiring days with snacks, music, and a great company.

Opening Ceremony & EAAP Awards

- Welcome from the Presidents of the Local Committee Dr. Christian Lambertz and the German Society of Animal Production (DGfZ) Hans-Willi Warder
- Opening speech by a representative of the Federal Ministry of Agriculture, Food and Regional Identity
- Welcome from the President of the EAAP Dr. Joel Bérard

EAAP Award Ceremony

- The Leroy Award presented to Giuseppe Bee
- Distinguished Service Awards (DSA)
- Young Scientist Awards
- Scholarships & Prizes (Special Major Awards: Schaumann Stiftung, Novus 2024)



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GERMAN EVENING

Tuesday, 8th September, at 19:30 – 00:30

Venue: Cap San Diego, Überseebrücke, 20459 Hamburg

Come on board! Celebrate with us on the Cap San Diego, the world's largest civilian museum cargo ship and an important part of Hamburg's harbor scenery. Join us on a culinary journey through Germany with delicious food, live music, and dancing – all surrounded by maritime flair and stunning views over the Elbe. The Cap San Diego is the last remaining ship in a series of six fast general cargo ships built in 1961/62 for the Hamburg-Süd shipping company, which sailed mainly to South America until the end of 1981. You can't get more Hamburg than this!



GALA DINNER

Thursday, 10th September, at 19:30 – 01:00

Venue: CURIO-HAUS, Rothenbaumchaussee 1120148 Hamburg

Join us for the EAAP 2026 Gala Dinner, the perfect way to end an exciting week of conferences. Take advantage of this opportunity to network, celebrate, and make lasting memories in a stylish, historic building under preservation orders. Right after it opened in 1911, artists and intellectuals started gathering here for the wild "Hamburg Artists' Festivals." It is just steps away from the Congress Center. Dress up, relax, and celebrate the day's achievements in style – a perfect opportunity to connect with colleagues and enjoy a truly special evening in Hamburg.

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ORGANISERS



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German Society for
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