

Monday, September 7 (8:30-12:30)

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

- **Starting time:** 08:30

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

- **Starting time:** 08:30
- **Invited Speaker:**
 - G. Leroy, P. Ajayi, P. Boettcher (*The Third State of the World report on Animal Genetic Resources: first insights*)
 - 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 (*Reflections on genomic assessment of genetic variation and the future of the breed concept*)
 - F. Phocas, J. L. Gourdine, H. Gilbert, V. Ducrocq, J. Raoul, M. Wurzinger (*Establishing and scaling up breeding programmes under challenging environments*)
 - E. Sosin, N. Svertedal, S. J. Hiemstra, S. Stojanović, J. Tomka, G. Polak, A. Chelmińska (*Progress, Gaps, and Future Challenges in Animal Genetic Resources Management in Europe from a National Coordinator Perspective*)
 - C. Gonzales, Ç. Kaya, G. Cartick (*The Evolving Role of the Private Sector in Livestock Breeding*)

Session 3. European resilient livestock farming systems in a continuously changing world.

Part 1

- **Starting time:** 08:30
- **Invited Speaker:**
 - C. Lauridsen, J. Bérard (*European resilient livestock farming in a continuously changing world - Welcome & introduction*)
 - T. Tiensin (*The New Era is Now: Sustainable Livestock Through Global Collaboration*)
 - E. Gocsik (*Navigating the Future of Animal Protein in a Changing Global Landscape*)
 - R. Hayler, J. Seifert, A. Van Den Brink (*Ensuring EU feed security and safety in a rapidly changing global environment*)
 - M. Moretti (*Exploring the Missing Middle: From Polarization to Systemic Responsibility in Europe's Protein Transition*)
 - K. Wosnitza (*The social and economic challenges to farmers - how can generational renewal be achieved?*)
 - B. Misonne (*EU Policy change related to the vision for agriculture and food, including simplification of EU rules and bureaucracy and comprehensive EU livestock strategy*)
 - C. Lauridsen (*European resilient livestock farming in a continuously changing world - Panel discussion*)

Session 4. Novel infrared (MIR/NIR) approaches on milk, urine, and feces to predict methane emissions and biomarkers

- **Starting time:** 08:30

Session 5. Circular/Sustainable feeds in the supply chain: alternative feed ingredients - Part 1

- **Starting time:** 08:30
- **Invited Speaker:**
 - A. Cerisuelo (*From circularity to practical application: optimizing food industry co-products for pig and poultry feeding*)

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

- **Starting time:** 08:30

Session 7. Scientific Frontiers in Dairy Herd Health, Milk Quality and Adaptive Farm Management

- **Starting time:** 08:30
- **Invited Speaker:**
 - I. Ivanytskyi (*The Ukrainian Meat and Dairy Sector and Agricultural Science under Wartime Conditions: Current Challenges, Adaptation Mechanisms and Development Prospects*)

Session 8. Resilient pigs in resilient farming systems - health, welfare and robustness in practice.

How to cope with changing expectations and legislation - Part 1

- **Starting time:** 08:30
- **Invited Speaker:**
 - L. Fabà, L. Ferreres-Serafini, P. Langendijk, J. F. Pérez, S. M. Martin-Orue, H. M. J. Van Hees (*Social Intermittent Suckling: Easing Weaning for Piglets and Sows*)
 - N. J. Tirchett, E. Garcia Manzanilla, V. A. Moustsen, A. Valros, P. Chevillon, V. Courboulay, P. Ferrari, J. Lorente Martín (*Participatory identification of feasible pig welfare innovations to support resilient farming systems under evolving EU legislation*)

Session 9. Rethinking sustainability from a One Welfare perspective

- **Starting time:** 08:30
- **Invited Speaker:**
 - I. Kyriazakis, C. Wangui (*Bringing animal welfare into sustainability: embedding animal wellbeing in Life Cycle Assessments*)
 - A. De Vries (*Balancing three pillars of welfare to maintain a promising future for dairy farming in the USA*)

Session 10. Positive welfare indicators

- **Starting time:** 08:30
- **Invited Speaker:**
 - L. Morgan (*From preventing suffering to measuring positive welfare: Can biological markers reflect Animals' lifetime experiences?*)
 - C. Winters (*Social touch as a positive welfare phenotype in livestock: a cross-disciplinary synthesis of sensory and behavioral evidence*)
 - M. Cupido, L. Boyle, S. Mullan, K. O'Driscoll (*Benefits of temporary access to enriched environments for finisher pigs*)
 - 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 (*Technologies for on-farm measurement of positive animal welfare: A scoping review*)

Session 11. Insects and other alternative raw materials as feed for livestock animals

- **Starting time:** 08:30
- **Invited Speaker:**
 - G. Daş, S. M. M. Seyedalmoosavi, L. Syahrulawal, M. Mielenz, B. Kuhla, J. Zentek, C. C. Metges (*Black soldier fly larvae in poultry feed: nutrition, functionality, and challenges for sustainable production in a circular economy*)

Session 12. Digital Innovations for Welfare and health focused Livestock Management - Part 1

- **Starting time:** 08:30

Session 13. Challenges to Mineral Balance and Intermediary Metabolism

- **Starting time:** 08:30

Monday, September 7 (14:15-18:00)

Session 14. Utilization of automatically recorded traits (sensor data) in cattle breeding and production

- **Starting time:** 14:15

Session 15. Safeguarding the Future: The Role of Livestock Diversity in Sustainable Agriculture

- **Starting time:** 14:15
- **Invited Speaker:**
 - E. Tourrette, G. Hélène, B. Servin (*Combining population and quantitative genetics to improve genomic prediction*)

Session 16. European resilient livestock farming systems in a continuously changing world. Part 2

- **Starting time:** 14:15
- **Invited Speaker:**
 - D. Martin-Collado, A. Bernués, M. Y. R. Couto, A. Prat-Banhamou (*From concept to measurement: Advancing resilience analysis in small ruminant farming systems*)
 - F. Accatino (*Resilience of European Livestock Systems: multi-scale, context-specificity and methodological insights*)

Session 17. Beef on Dairy (1): Improving husbandry conditions of dairy beef calves both at the dairy and the fattening farms to gain better societal acceptance

- **Starting time:** 14:15
- **Invited Speaker:**
 - D. Renaud (*Building a resilient dairy-beef calf: Integrating genetics, early-life management, and producer decision-making*)
 - S. Marti, F. Marcato (*Transport of unweaned calves: risk factors and future perspectives*)

- F. Von Steimker, E. Bayer, S. Kühl (*Who Is Willing to Compromise? Consumer Clusters, Societal Acceptance of Alternative Housing Systems and Trade-Offs in German Beef Cattle Production*)

Session 18. Circular/Sustainable feeds in the supply chain: alternative feed ingredients - Part 2

- **Starting time:** 14:15

Session 19. From nutritional recommendation to feeding practice - Part 2

- **Starting time:** 14:15

Session 20. How does longevity relate to the welfare of breeding animals?

- **Starting time:** 14:15
- **Invited Speaker:**
 - M. A. Von Keyserlingk, S. E. Bolton, K. L. Proudfoot (*The devil is in the details: Is longevity a good indicator of farm animal welfare?*)
 - L. Hüneke, G. Thaller, C. Schmidtmann (*Genetics meets management: Explaining the gap between genetic and phenotypic trends of longevity in dairy cattle*)
 - A. Römer, J. Harms, A. Boldt, P. Sanftleben (*Investigations on an optimal longevity of dairy cows in practical farms in the North-East of Germany*)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - M. Coutant, M. S. Hedemann, M. S. Grønbeck, M. Hviid, L. J. Pedersen, M. L. V. Larsen (*Extensification is not one-dimensional: contrasting welfare and meat quality responses to space, enrichment and roughage in fattening pigs*)
 - K. O'Driscoll (*Balancing productivity and welfare to improve resilience in modern pig farming systems*)
 - J. Gelhausen, I. Wilk, D. Mörlein, J. Tetens, J. Knöll (*Duration of muscle excitations during inert gas stunning of slaughter pigs: Do they influence meat quality?*)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - I. A. S. Olsson, S. Capas Peneda, S. Brajon, C. Gilbert, G. Munhoz Morello (*Preweaning mortality in laboratory mouse breeding: an animal science and veterinary perspective on a 3R challenge*)
 - F. J. Van Der Staay, V. C. Goerlich, F. L. B. Meijboom, S. S. Arndt (*Animal welfare definitions, frameworks, and assessment tools: Advancing the measurement and laying the foundation for improved animal welfare through a three-step approach*)
 - H. Zhao, A. De Ceuster, M. Z. Akram, L. Comer, E. Fako, M. Corion, N. Everaert (*Rethinking animal welfare through the microbiota: early maternal microbial contact builds immune resilience in commercial broilers*)

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

- **Starting time:** 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - D. Brugger, J. Eichinger (*Interactions between microplastics and the gastrointestinal ecosystem of livestock: integrating experimental evidence and emerging concepts*)
 - S. Tassone, V. Balestra, S. Barbera, R. Issaoui, H. Kaihara, A. Zanola, K. Abid (*Interaction of polyethylene terephthalate microplastics within the rumen environment*)
 - E. Visentin, G. Niero, M. De Marchi (*Microplastics in animal-based food products: occurrence, contamination pathways, and analytical challenges*)

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

- **Starting time:** 14:15

Session 26. Management practices for sustainable poultry (and livestock) systems: welfare, biodiversity, and life cycle perspectives

- **Starting time:** 14:15
- **Invited Speaker:**
 - I. De Jong (*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*)
 - L. Chai (*Precision farming practices for sustainable poultry production in the USA*)

Tuesday, September 8 (8:30-12:30)

Session 27. Plenary session - The New Era of Livestock Farming Between Science and Global Markets

- **Starting time:** 08:30
- **Invited Speaker:**
 - N. El Benni (*Feeding the Future: Global Challenges, Risks, Policy Solutions and the Role of Livestock Production*)
 - A. Matthews (*Navigating the Perfect Storm: Between Green Deal Ambitions, CAP Reform, and Market Realities*)
 - H. Hogeveen (*Unpacking the promises of technology in farming: The economic challenge*)
 - W. Rauw (*Beyond Pure Productivity: The Strategic Role of Genetics, Resilience, and Health for Business Continuity*)

Leroy Award Presentation

- G. Bee

Tuesday, September 8 (14:15-18:00)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - G. Cartick, L. Fontanesi (*Economics of Genomic Improvement: How to Enhance Productivity While Reducing Environmental Impact*)
 - G. Leroy, P. Ajayi, A. Uwizye, N. Rakotovao, P. Boettcher (*What kind of breeding for a sustainable livestock production worldwide? global priorities, constraints, and pathways forward*)
 - P. Berg (*Challenges in breeding for reduced environmental impact and other eco-system services*)
 - E. Labussiere, R. Baumont (*European integration of phenotyping, genomic and data research facilities to foster sustainable animal production and aquaculture*)
 - L. P. Sørensen (*Unlocking genetic progress: importance of data-driven selection to enhance productivity, economy and environmental impact*)
 - R. Shi (*Balancing profit, greenhouse gas emissions and resilience in dairy cattle breeding using integrated modelling approaches*)
 - D. Bickhart, N. Duijvesteijn (*Investments in modern genomics and digital phenotyping to improve the economics of livestock production systems*)

Session 29. Multi-omics data integration in animal breeding

- **Starting time:** 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - D. Lourenco, M. Bermann, A. Cesarani, I. Misztal (*Genetic and genomic strategies for advancing sustainable beef-on-dairy systems*)
 - C. Schmidtman, A. Rolfes, M. Wobbe, L. Polman, D. Adekale (*Balancing profit and calving performance: New breeding values for Beef-on-Dairy sires*)
 - L. Völker, C. Schmidtman, L. Hüneke, G. Thaller (*Impact of the use of Beef-on-Dairy on milk yield, calving traits and culling risk of the cow in subsequent lactation*)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - G. Reiner, K. Gerhards, M. Lechner, K. Koenders-Van Gog, S. Becker (*Characterizing the complex genetic architecture of SINS reveals associations with physiological side effects of selection in swine*)
 - I. Thøfner, T. A. S. Al-Saeedi, S. S. Nielsen, S. Kabell, J. P. Christensen (*Pathological investigation of cardiovascular disease in broilers*)
 - L. A. Gutekunst, V. P. Haas, C. Schmidtman, J. Tetens, G. Thaller, J. Bennewitz (*Mapping production independent mastitis risk in German Holsteins using GWAS SEM*)
 - K. Huber (*From genotype to phenotype: expectations and limitations*)

- C. Baes, A. Harlander, S. Barbut, B. Wood, F. Miglior (*Balanced breeding goals: genetics as part of the solution to livestock welfare and sustainability challenges*)
- A. Harlander, B. Tobalske, R. Garant, J. Page, N. Van Staaveren (*Why laying hens struggle with vertical space: biomechanical constraints and implications for aviary design*)

Session 32. Feeding strategies to optimise welfare

- **Starting time:** 14:15

Session 33. Unravelling the next generation animal nutrition: functional feed ingredients and additives - Part 1

- **Starting time:** 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - M. Gierus, S. Steiner, L. Dardabou, G. Terler (*Assessing accuracy and on-farm applicability of dairy cow feed intake prediction equations*)

Session 35. Early career competition (pigs & poultry)

- **Starting time:** 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - N. Kemper (*Biosecurity in challenging times: recognizing overlooked hygiene pathways in livestock production*)

Session 37. Omics for functional traits in horses

- **Starting time:** 14:15

Session 38. Advances in insect breeding and genetics

- **Starting time:** 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - A. Khimasia (*Circular Feed Ingredients in Livestock Systems: Opportunities and Constraints for Circular Agriculture*)
 - G. Shurson, Z. Dou (*Food loss and waste to animal feed - an imperative for a circular, sustainable, One Health food system*)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - G. Lühken, M. Serena Beato, K. Elisabetardottir, P. König, C. Fast, E. Grochowska, V. Beringue, S. Thorgeirsdottir (*It's not always as simple as*

it seems: lessons from genetic susceptibility to prion and lentivirus infections in sheep)

- A. Amaral (*Genomic insights into health resilience and environmental adaptation in Portuguese and Angolan small ruminants*)

Session 41. Phosphorus and other critical raw materials in poultry - joint EAAP-WPSA

- **Starting time:** 14:15
- **Invited Speaker:**
 - M. Rodehutsord (*Rethinking phytate utilisation in poultry: Endogenous phytate degradation and influencing factors*)
 - C. Visscher (*The importance of minerals and vitamins for poultry health*)

Session 42. Challenge session: the future of pig production research: Who needs researchers if we have AI?

- **Starting time:** 14:15
- **Invited Speaker:**
 - M. Marcon, M. Nouri (*How Artificial Intelligence Could Transform Pig Farming in the Next Decade*)
 - P. J. De Temmerman, J. Maselyne, M. Aluwé (*How AI Is Reshaping the Role of the Pig Researcher*)

Session 43. Bridging physiology and precision livestock farming: automated quantification of physiologic, metabolic and environmental disturbances

- **Starting time:** 14:15

Wednesday, September 9 (8:30-12:30)

Session 44. Methodological Innovations for Genomic Analysis and Prediction

- **Starting time:** 08:30
- **Invited Speaker:**
 - D. Lourenco, M. Bermann, G. Gowane, I. Misztal (*Estimating variance components and genetic parameters in large genotyped populations*)

Session 45. Advances in Genomics and Breeding Across Livestock Species

- **Starting time:** 08:30

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

- **Starting time:** 08:30
- **Invited Speaker:**
 - C. Berri, L. Darrigade, M. Bourin, E. Baéza, R. Eppenstein, M. Petracci, S. De Smet (*Combining sustainable poultry farming and meat quality: Insights from the intaqt project*)

Session 47. Animal microbiomes - moving forward from taxonomic to functional information - in conjunction with the Horizon 2020 Holoruminant project - Part 1

- **Starting time:** 08:30

Session 48. Unravelling the next generation animal nutrition: functional feed ingredients and additives - Part 2

- Starting time: 08:30

Session 49. The role of intrinsic and extrinsic quality in beef industry

- Starting time: 08:30

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

- Starting time: 08:30
- Invited Speaker:
 - F. Stark, M. Moraine, M. Grillot, J. Ryschavy (*Participatory and iterative approach to design collective strategies of crop-livestock integration*)

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

- Starting time: 08:30
- Invited Speaker:
 - F. Garcia-Launay, L. Cappelaere, F. De Quelen, P. Lin, P. Schlegel, R. Aklikokou, M. P. Létourneau Montminy (*Evaluation of animal-level strategies for reducing nitrogen and phosphorus losses and their effectiveness in mitigating the environmental burden of pig production*)

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

- Starting time: 08:30

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

- Starting time: 08:30

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

- Starting time: 08:30

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

- Starting time: 08:30

Session 56. Optimal and sustainable insect production

- Starting time: 08:30

Wednesday, September 9 (14:15-18:00)

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

- Starting time: 14:15

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

- Starting time: 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - K. Agethen, H. Kuhnert, B. Lassen, T. Lindena, A. Raschel, H. Nieberg (*Development of Sustainable Dairy Production in Germany - learnings from the "Dairy Sustainability Tool" project*)
 - J. Riecken, R. Loges (*Outlook of a dairy farmer from Northern Germany: Strategies for resilient milk production*)
 - G. Van Duinkerken (*Key developments and scientific focus fields in European dairy farming systems*)
 - H. Watson (*Producer Mental Health and Wellbeing as a Critical Component of a Resilient and Sustainable Agricultural System: Insights from Canada*)
 - A. De Vries (*Current developments in the dairy sector in the USA*)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - L. Guan (*Translational rumen microbiome research to improve cattle production sustainability*)

Session 61. Next generation nutrition solutions for poultry

- **Starting time:** 14:15
- **Invited Speaker:**
 - W. Siegert (*Utilization of free amino acids in broiler chickens revisited*)
 - T. De Rauglaudre (*Low protein diets in broilers chickens: insight from a holistic evaluation*)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - F. Leiber (*Climate protection and food security: antagonists or synergists in grassland-based production?*)

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

- **Starting time:** 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - P. Floradin, M. P. Létourneau-Montminy (*Meta-analysis of urinary calcium and phosphorus excretion as predictors of mineral status and dietary imbalances in growing pigs*)

Session 65. Animal welfare free communications

- **Starting time:** 14:15

Session 66. Rethinking Equine Production in a Systemic Perspective

- **Starting time:** 14:15
- **Invited Speaker:**
 - European Horse Network, 4Sing, A. Julien, L. Rosier, F. Gras, H. Blauw, M. Addes (*Exploring the future of the European equine sector towards 2040: a participatory foresight approach*)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - X. Boivin, G. Barbier, E. Delanoue, R. Lardy (*Relational Practices in Beef Suckler Systems: A Literature Review, Holistic Modelling, and Emerging Research Questions*)

Session 68. Young EAAP

- **Starting time:** 14:15

Session 69. Animal Welfare Aspects and Future Perspectives in Sheep and Goat Production

- **Starting time:** 14:15
- **Invited Speaker:**
 - D. Mendez, D. R. Yanez-Ruiz, A. Gómez, B. Farjardo, M. Hassan, A. Sánchez-Garcia, F. Estelles, M. Romero-Huelva (*Productivity and behavioural monitoring of dairy goats under heat stress conditions*)

Session 70. Challenges and opportunities in farming insects

- **Starting time:** 14:15

Thursday, September 10 (8:30-12:30)

Session 71. Breeding for enhanced health and welfare

- **Starting time:** 08:30

Session 72. Integration of Hologenomics and Epigenetics into Animal Breeding

- **Starting time:** 08:30

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

- **Starting time:** 08:30

Session 74. Resilience and Structural Change in Dairy Regions Worldwide

- **Starting time:** 08:30
- **Invited Speaker:**
 - Y. Montanholi, F. Teillard (*Transforming Dairy Systems in APHCA Countries: Productivity, Health and Climate-Smart Innovation*)
 - M. Hamon, T. Yangzome Dorji, S. Norbu (*Scaling up strategic investments in the dairy sector using the LSIPT WebApp: Evidence from a national genetic breeding centre in Bhutan*)

- D. Bhandari, K. Sah, C. Tabora (*Building Inclusive and Sustainable Dairy Production: Global Insights on Community-Led Transformation Models from Heifer International*)
- 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 (*Enhancing dairy productivity in low- and middle-income countries through synergistic approaches*)
- I. Houaga, R. Mrode, S. W. Alemu, G. Gebregziabher, J. Ojango, S. Meseret, E. T. Lyatuu, C. Ekine-Dzivenu, A. Frank-Lawale (*Delivering Genetic Gains for Productivity, Climate Resilience, and Low Emissions in African Dairy Systems through ILRI-Led Genomics-Based Breeding*)
- A. Mottet, P. Ndungu (*Investing in dairy for inclusive rural transformation: priorities and challenges from different regions and systems*)
- F. R. Dunshea, I. Sawyer, F. Ahmadi (*Innovations in temperate grazing dairy systems in Australia driven by precision management of pasture and livestock*)
- H. Huang, Y. Qu, L. Li, F. Kong, X. Liu, J. Wang, J. Zheng (*Current status and future prospects of the dairy sector in China, illustrated by Heilongjiang Province*)

Session 75. Methane mitigation via animal nutrition - Part 1

- **Starting time:** 08:30
- **Invited Speaker:**
 - A. Schwarm (*Immunonutrition in ruminants*)

Session 76. Improving fertility in Farm Animals

- **Starting time:** 08:30
- **Invited Speaker:**
 - K. Shai, N. A. Sebola, S. Lebelo, M. Mabelebele, F. Manyeula (*Assessment of Securidaca longipedunculata (violet tree) effect on Semen Quality and Blood Sex Hormone Levels in Indigenous Goats*)

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

- **Starting time:** 08:30
- **Invited Speaker:**
 - J. Gilliland (*Policy to practice: Driving farm-level change with carbon accounting and transparent Scope 3*)
 - Bystricky, D. Bretscher (*Between farm consulting and product-level carbon accounting: Can the gap be closed?*)

Session 78. Young Pig Management and Nutrition - Part 1

- **Starting time:** 08:30
- **Invited Speaker:**
 - P. G. Lawlor (*Pre- and post-weaning management and nutritional strategies to increase piglet growth and health*)

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

- **Starting time:** 08:30
- **Invited Speaker:**

- C. Berg (*Monitoring on-farm welfare by using animal-based indicators at slaughter - past and future*)
- J. Zemzmi, E. Caro, C. Reverté, S. Ashe, L. Amato, Y. P. Van Der Stede, A. Velarde (*Roadmap for a Prototype Knowledge Platform to Track European Animal Welfare Data.*)
- T. B. Rodenburg, P. Llonch, E. Mainau, W. Wang, M. Coutant, S. Ntalampiras, L. Büttgen, E. D. Ellen, M. Giacobini, O. Guzhva, N. Högberg, C. Gaillard, M. Majewski, M. F. Giersberg (*The Eyes & Ears project: automatic on-farm monitoring of animal health and welfare*)
- Y. Seddon, F. Ferri, J. Yopez, M. Ahadi, Y. Wang, R. Ko, M. Lagoda, S. B. Ko (*Development of a computer vision system for the assessment of swine welfare from indicators on carcasses.*)

Session 80. Free Communications on Pigs

- **Starting time:** 08:30

Session 81. Ethics, Data Management and Data Standardization in PLF with the future of AI

- **Starting time:** 08:30
- **Invited Speaker:**
 - M. A. Von Keyserlingk, K. Sheng, B. Foris, D. M. Weary (*Rethinking AI for Animal Welfare: Framing, Misinformation and Ethics*)
 - L. F. Brito (*From data streams to breeding values: developing and harmonizing novel phenotypes for sustainable livestock genetic improvement*)

Session 82. Advances in feed production and conversion efficiency and small ruminant nutrient utilization

- **Starting time:** 08:30

Session 83. Artificial intelligence applications in poultry farming systems

- **Starting time:** 08:30
- **Invited Speaker:**
 - V. Bloch, M. Ross, A. Haron, Y. Heler, A. Godo, I. Halachmi, S. Druyan (*Technologies for Individual Sensing of Poultry in Commercial Hen Houses*)

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

- **Starting time:** 08:30
- **Invited Speaker:**
 - K. Keogh, S. Coen, P. Lonergan, S. Fair, D. Kenny (*Effect of enhanced early life nutrition on the transcriptional profile of hepatic tissue in Holstein Friesian bull calves*)

Thursday, September 10 (14:15-18:00)

Session 85. Enhancement of GxE methodologies in animal breeding

- **Starting time:** 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - V. Baddela, J. Vanselow, G. Moreira, C. Charlier, D. Becker, G. Plastow, C. Klein, C. Kühn (*Epi*) *genomic regulation of phenotype diversity and plasticity in cattle*)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - A. Serkan (*Navigating the Promise and Pitfalls of Phytochemically Diverse Pastures for Multifunctional and Sustainable Livestock Systems*)
 - M. K. Schneider, C. M. Pauler (*Site-adapted farming systems in mountain regions: a synthesis of key characteristics, transformations and challenges*)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - M. Mele (*Adapting Dairy Cattle Grazing Systems to Climate Change: The Role of Agroforestry*)

Session 89. Methane mitigation via animal nutrition - Part 2

- **Starting time:** 14:15

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

- **Starting time:** 14:15

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

- **Starting time:** 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - D. Mörlein, C. Siebenmorgen, J. Mörlein, M. Strack, A. Risius (*Maintaining agrobiodiversity: Holistic sensory and consumer testing of local chicken breeds and crossbreeds thereof with commercial lines*)
 - 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 (*Genetic Insights into the Diversity and Structure of European Draft Horse Breeds*)

Session 93. Young Pig Management and Nutrition - Part 2

- **Starting time:** 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**

- C. CorreiaGomes-, O. Soriano, L. M. Tamminen, G. Olmos Antillón, A. Burrell, E. Biebaut, T. B. Rodenburg, N. Van Noten, T. Tobias (*Animal welfare and biosecurity on farm: are there conflicts?*)

Session 95. Innovations in equine feeding and management strategies

- **Starting time:** 14:15
- **Invited Speaker:**
 - V. Milojevic, C. Omphalius, S. Julliand (*Effect of season on pasture composition, intake, and health in horses*)

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

- **Starting time:** 14:15

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - D. Renaud (*Why has progress stalled in reducing morbidity and mortality in dairy calves?*)

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

- **Starting time:** 14:15
- **Invited Speaker:**
 - A. Cahaner (*Breeding broilers against growth-related 'defects' - lessons from the past to the future*)
 - 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 (*Genome engineering approaches to address male chick culling and broiler reproductive constraints*)
 - M. Alhussien, B. Schusser, R. Preisinger (*Tailored interferon receptor knockouts in chickens reveal key regulators of disease resilience*)