

HDRF Conference 2024:
Next Generation Data-Led Dairying

Hannah Dairy Research
Foundation



Journal of Dairy
Research

Edinburgh, November 18th and 19th 2024

| FINAL PROGRAMME | |
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| Monday 18th November 2024 | |
| 12:00-12:50 | Arrival, registration and lunch, online portal open |
| 12:50-13:00 | Welcome: Prof Dave Roberts. Chair, Hannah Dairy Research Foundation |
| Data utilisation: theory to practice | |
| 13:00-13:45 | Mazdak Salavati, SRUC. <i>Digital twinning of livestock systems: A dairy sector use case.</i> |
| 13:45-14:30 | Rob Morrison, UK Agri-Tech Centre. <i>Drowning in data, starved of information</i> |
| Bulletin Board Scottish Dairy Innovation | |
| 14:30-14:45 | Rowan Cook, SRUC. <i>Comparative analysis of shed and external ambient temperature and humidity data on mastitis incidence in housed dairy cattle</i> |
| 14:45-15:00 | Vanesa Fuertes, University of the West of Scotland. <i>The impact of wearable technology for cows, on dairy farmers' work and wellbeing</i> |
| 15:00-15:15 | Katarzyna Maslowska, University of Glasgow. <i>Evaluation of C. burnetii detection by qPCR in different sample types collected from Scottish dairy cattle.</i> |
| 15:15-15:45 | Coffee |
| Data utilisation: theory to practice | |
| 15:45-16:30 | Richard Vecqueray, Map of Ag. <i>What gets measured, gets managed: Using data to support scaled change in dairy systems</i> |
| Open Communications | |
| 16:30-16:45 | Tim Potter, Vet Partners. <i>Integration of multiple data streams to enable evidence based veterinary advice.</i> |
| 16:45-17:00 | Nisha Tucker, University of Surrey. <i>Understanding the faecal and oral microbiomes of cattle to improve health and productivity</i> |
| 17:00-17:15 | Ana Sato, University of Liverpool. <i>Genetic merit for digital dermatitis resistance is associated with disease incidence and granulocytes migration in dairy heifers</i> |
| General Discussion and Close of Session | |
| Conference Dinner <i>Whisky Experience, Royal Mile</i> 7.30 for 8.00 | |

| FINAL PROGRAMME | |
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| Tuesday 19th November 2024 | |
| 08:30 - 09:00 | Arrival, online portal open |
| Cutting edge data-based research | |
| 09:00-09:45 | Christos Tachtatzis, Strathclyde University. <i>Cattle video analytics: Data tsunami and the pathway to ambient sensing</i> |
| 09:45-10:30 | Claudia Kamphuis, Wageningen University. <i>Data science for next level dairying</i> |
| Elevator-pitch poster introductions | |
| 10:30-11:00 | Ana Manriquez Graf, University of Glasgow. <i>Digestive health and production consequences of incorporating a rumen buffer in beef fattening diets at moderate and high inclusion rates</i> |
| | Manuel Betancor Sanchez, University de Las Palmas de Gran Canaria. <i>Enhancing IgG Goat Colostrum Determination Using Colour-Based Techniques and Data Science</i> |
| | Umut Kartal, James Hutton Institute. <i>Field bean (<i>Vicia faba</i> L.) to spring barley (<i>Hordeum vulgare</i> L.) production in Scotland: a life cycle assessment</i> |
| | Joanna Urbaniec, University of Liverpool. <i>Investigation of livestock transport trailers as potential fomites for antibiotic-resistant <i>E coli</i></i> |
| | Yehoshav Ben Meir, Volcani Insitute, Israel. <i>Unlocking dairy potential: Insights into drinking water minerals composition effects on lactating cow performance</i> |
| 11:00-11:30 | Coffee and Posters |
| Bulletin Board Scottish Dairy Innovation | |
| 11:30-11:45 | Beth Riley, SRUC. <i>The effect of neonatal calf diarrhoea with and without dehydration and calf characteristics on saliva pH and conductivity</i> |
| 11:45-12:00 | Paul Campbell, University of Glasgow. <i>Sustainable worm control with 'PASTURE' (parasite amplicon sequencing to understand resistance emergence)</i> |
| Data-assisted optimized animal and consumer nutrition | |
| 12:00-12:45 | Hasitha Priyashantha, Federation of Swedish Farmers. <i>As Good as Gold: data-driven excellence rewarding Swedish farmers for delivering top-quality milk (the Gold Medal Project).</i> |
| 12:45-13:30 | Bob Van Saun, Penn State University. <i>Dairy nutritional data: Managing between precision and buckets</i> |
| General Discussion and Close of Session | |
| 13:50 | Lunch and depart |