ICAR 2024 SCIENTIFIC PROGRAM

Day / Location	Session / Chair	Oral /	Time	Speaker	Topic
		Poster			
		Oral	10:30	Ana Granados Chapatte	Sustainable breeding strategies; what does it
Wednesday,	ICAR Plenary	Orai	10.50	& Harald Sverdrup	mean?
May 22, 2024	Session	Oral	11:15	Marleen Broekhuijse	New ICAR service to standardize bovine semen
		Orai	11.15	iviaricen brockraijse	quality assessment
Location:	Chair:			Jo Newton, Katharina	"Brian Wickham Young Persons Exchange
ARNOLD I / II	Tatjana Pirman	Oral	11:45	Schodl, Caeli	Program (BWYPEX):" People: the forgotten side
				Ridchardson	to sustainability?
		13:00 – 1	L4:30 LUNC	Н	People: the forgotten side to sustainability?
		Oral	14:30	Matthew Shaffer	Welcome and intro
	Joint	Oral	14:32	Jo Newton	Overview: data collection for beef on dairy
	ICAR/INTERBULL	Oral	14:42	Kevin Byskov	Experiences from collection of feed and methane
Wednesday,	Session: Data	Orai	14.42	Reviii byskov	data from beef x dairy calves in Denmark
May 22, 2024	collection for	Oral	14:54	Brian Van Doormaal	An Alternative Solution for Supporting Beef on
	Beef on Dairy	Orai	14.54	Brian van Boormaa	Dairy Genetic Selection Decisions
Location:		Oral	15:06	Ross Evans	The evolving landscape of beef from the dairy
ARNOLD I / II	Chair:	Orai	15.00	NO33 EVAII3	herd: A perspective from Ireland
	Matthew Shaffer	Oral	15:18	Martino Cassandro	The use of beef semen in Italian Holstein cows
	& Jo Newton	Oral	15:30	Randie Culbertson	Beef x Dairy: The U.S. beef perspective
		Panel	15:42	All speakers	Panel discussion with audience interaction

		Poster		Mojca Voljč	Carcass traits of Holstein, Simmental and Brown Swiss calves, bulls and heifers and their crossbreeds with Charolais, Limousin, and Belgian Blue in Slovenia
		16:00 – 16:	30 Coffee B	reak	
	Oral	16:30	Pierre Broutin, BENTLEY	Latest cutting-edge analytical and automation solutions to extract the maximum value of every milk sample and streamline Central Milk Testing laboratories operation	
		Oral	16:50	Wim Schielen, European Livestock Diagnostics Center - ELDC BV	Basic and in depth, continuing Farm Management Monitoring creates Trust, Transparency and Value
Wednesday,	Manufacturers	Oral	17:00	André Eggen, Illumina	Genomics Tools from Farm to Fork
May 22, 2024	Showcase	Oral	17:15	Julie Leblois, EMR	Spectral standardisation between brands to build and use robust FT-MIR models
Location: ARNOLD I / II	Chair: Steven Sievert	Oral	17:25	Greta Bonacina, TECNOSENS	Moologger - Not just a simple sniffer
	Oral	17:35	Romy Morrin- O'Donnell, Weatherbys Scientific	Weatherbys Scientific our history & our services	
		Oral	17:45	Janez Kunc, Al Center Preska	Presentation of Slovenian AI Center Preska
		Oral	17:50	All speakers	Panel discussion with audience interaction
		Poster	-	Loïc Commun	IDEXX REALPCR MILQ-ID DNA system: new solution for mastitis testing

18:00 – 20:00 WELCOME COCKTAIL

Day / Location	Session / Chair	Oral /	Time	Speaker	Topic
		Poster			
		Oral	08:00	Lorenzo Pascarella	SiallSCM: a nation-wide tool for milking
		Orai	08.00	Lorenzo i ascarena	monitoring to enhance efficiency and welfare
					The Commercial Beef Value (CBV) encourages the
		Oral	08:18	Margaret Kelleher	adoption of sustainable and profitable practices
	Session 1a:				in beef production.
	Decision Support				HeiferHub – A decision support tool to forecast
	Tools of the	Oral	08:36	Robert Fourdraine	sales of beef calves and future heifer
Thursday	Future –				replacements
Thursday,	Promoting		08:54	Valentina Ferrari	Optimization of dairy herd replacements
May 23, 2024	Sustainability	1			combining conventional, sexed, and beef semen
Location:	Farm				in mating programs
ARNOLD I	Management		09:18		Development of an analytical tool for animal
ARNOLDT				Yura Pekov	genetic progress assessment based on gEBVs and
	Chair:				results of its on-farm implementation
	Robert H. Fourdraine				The Dairy-Farm Management Monitor; a lab-
		Oral	09:36	Wim Schielen	driven system for sustainable farming, prevention
					of disease, and increased lactations
					Digitalized data sharing strategy for decreasing
		Oral	09:54	Matti Pastell	administrative burden- how data spaces will be
					utilized in Digi4Live project

Poster /	10:12	Tineke Ammerlaan -	How data can have a big impact on small farms in
Pitch	10.12	Sieperda	developing countries
Poster / Pitch	10:17	Pablo Pinedo	Comparing the milking behaviour of primiparous vs. multiparous Holstein and Jersey cows in an automated batch milking system
Poster / Pitch	10:22	Pablo Pinedo	Comparing the milking behaviour of primiparous vs. multiparous Holstein and Jersey cows in an automated batch milking system
Poster / Pitch	10:27	Anita Ule	Slovenian dairy farmers' view on breeding goals
10:30 - 11:	00 Coffee B		

Day / Location	Session / Chair	Oral /	Time	Speaker	Topic
		Poster			
Thursday,	horizon of milk mid-infrared spectrometry	Oral	08:00	Helene Soyeurt	How spectrally representative are datasets used to build MIR-based predictive models? A datadriven study.
May 23, 2024		Oral	08:20	Malia Caputo	Association of individual cow milk fatty acid proportion and variance with milk production
Location: ARNOLD II		Oral	08:40	Marine Gelé	Predicting glutamate concentration in milk using mid-infrared spectrometry for routine detection of energy-deficient cows
Josée Bordeleau	Oral	09:00	Laura Monica Dale	FeMIR - MIR Spectral predictions for feed and energy efficiency - Practical Application	

Oral	09:20	Phuong Ho	Predicting the likelihood of conception to first insemination using milk mid-infrared spectroscopy: a model for FOSS instrument
Oral	09:40	Octave Christophe	Improving taste and flavor in dairy product through milk analysis of free fatty by Mid-infrared (MIR) spectrometry.
Oral	10:00	André Mensching	Daily standardization of milk mid-infrared spectra in a comprehensive regression model framework considering animal related data
Poster	-	Sarah-Joe Burn	Prediction of residual energy intake in Fleckvieh cows using mid-infrared spectroscopy
Poster	-	Laura Monica Dale	Predicting dairy cattle heat stress indicators using machine learning and mid infrared spectral data
Poster	-	Yang Ming-Kuew	Effects of Feeding Time on Fatty Acid Composition in Milk of Primiparous Dairy Cows During Early Postpartum Stage
Poster	-	Po-An Tu	Investigating the Impact of Heat Stress and Subsequent Recovery on Fatty Acid Profiles in Bovine Milk
10:30 - 11:			

Day / Location	Session / Chair	Oral / Poster	Time	Speaker	Topic
	Session 8:	Oral	08:00 08:20	Birgit Gredler-Grandl Samuel Clark	Genetic selection for lower methane emission in dairy cattle – ready for implementation? Selecting for Lower Methane Beef Cattle – the
Thursday	Thursday, May 23, 2024 Global challenges in genetic selection for lower methane emission in ruminants	Oral	08:40	Joanne Conington	current state of play International approach to reduce greenhouse gas emissions from sheep
May 23, 2024		Oral	09:00	Elly Navajas	Developing livestock breeding strategies for enteric methane mitigation in developing countries – the case of Latin America
	Chair: Birgit Gredler-	Oral	09:20	Claudia Arndt	Overview on the Status-Quo and Challenges to Reduce Methane Emission from livestock systems in Africa
	Grandl & Roel	Oral	09:40	Тао Ма	Methane emission from ruminants and current advances in mitigation strategies in China and India
		Panel	10:00	All speakers	Panel discussion with audience interaction
		10:30 – 11:	00 Coffee B		

Day / Location	Session / Chair	Oral / Poster	Time	Speaker	Topic
	Session 1b: Decision Support Tools of the	Oral	11:00	Asha Miles	Proposing a new US dairy herd sustainability metrics platform
		Oral	11:17	Joanna Newton	Stakeholder engagement to support the development of next generation decision support tools
Thursday,	Future – Promoting	Oral	11:34	Arnaud Delpeuch	New algorithm to plan easier and faster weighing for French breeders and technicians
Location:	May 23, 2024 Sustainability Farm	Oral	11:51	Harm-Jan van der Beek	Different types of Benchmarking of international datasets from dairy farms with an unique data set.
ARNOLD		Oral	12:08	Mike Lynch	AgNav - a tool for putting climate action planning in farmers' hands
		Oral	12:25	Jasper van der Noord	The reality of on-farm hardware when providing tools of the future
		Oral	12:42	Mauro Fioretti	A tool to identify cows eligible for Selective Dry Cow Therapy (SDCT)
		13:00 -	14:30 LUNC		

Day / Location	Session / Chair	Oral /	Time	Speaker	Topic
		Poster			
		Oral	11:00	J.S. Clay	DecisiveDry – Decision support for proper use of Selective Dry Cow Therapy while enhancing dairy sustainability
		Oral	11:20	Kristina Linke	Dry-off treatment of dairy-cows – Methods to guide targeted antimicrobial use
Thursday	Thursday, May 23, 2024 Session 5: How to relate on farm sustainability and milk analysis?	Oral	11:40	Clément Grelet	Can we get information on dairy cows chronic stress biomarkers using milk MIR spectra?
• •		Oral	12:00	Julie Leblois	HoliCow – a new transnational approach to get the best out of DHI data collection and FT-MIR spectral data
ARNOLD II	Chair:	Oral	12:20	Wim Schielen	Dutch Multifarm Study on Salmonella Infections in Dairy Herds and the use of a Postbiotic
	Josée Bordeleau	Poster	-	Liao Hsiao-Han	The effect of different brands of automatic milking systems on bulk tank milk bacterial and somatic cell counts
		Poster	-	Yi-Hsuan Chen	Comparative Dynamics of Milk Fatty Acids for Primiparous and Multiparous Holstein Cows in Early Lactation
		13:00 – 1	14:30 LUNC	Н	

Day / Location	Session / Chair	Oral / Poster	Time	Speaker	Topic
		Oral	11:00	Giulia Gislon	Environmental impact assessment of milk production: is a simplified tool possible?
Session 11: Methane Emission-Free	Oral	11:20	Coralia I. V. Manzanilla- Pech	Incorporating genetic information about methane into the Dutch Annual Nutrient Cycling Assessment	
	Oral	11:35	Lorena Foschi	Machine Learning for Predicting Environmental Impacts in Intensive Livestock Farming, Overcoming Data Challenges	
	Communications:	Oral	11:50	Anouk van Breukelen	Towards breeding for lower enteric methane emissions of dairy cows in the Netherlands
Thursday, May 23, 2024	Environmental, and Life Cycle Assessment	Oral	12:00	Lorenzo Benzoni	A holistic approach for monitoring the environmental sustainability of the Italian Holstein cattle population
Location: KOMPAS	Studies Chair:	Oral	12:10	Trine Villumsen	Data Collection and Preparation for Genetic analysis of Methane Emissions in Danish Dairy Cattle
Maddalena 2 & Raffaella Finocchiaro		Oral	12:20	Maria Frizzarin	Validation of previously developed methane emission prediction model using individual Irish cow milk mid-infrared spectra
		Oral	12:30	Phuong Ho	Predicting methane emissions of Australian dairy cows using mid-infrared spectroscopy from milk samples
		Oral	12:40	Boris J. Sepulveda	Reducing dairy cattle enteric methane emissions using rumen metagenome

Pitch	12:51	Beat Bapst	The Swiss way of breeding dairy cattle for reduced methane: CH4COW
Pitch	12:52	Kristina Linke	Breed4green – Recording of new phenotypes for methane emission and feed efficiency in Austrian dairy cattle
Pitch	12:53	Rachelle Hergenhan	Impact of environmental conditions on GreenFeed access in feedlot steers
Pitch	12:54	Michael Aldridge	Phenotyping more animals for methane is more important than precise measures of methane
Pitch	12:55	Riccardo Negrini	Estimation of enteric methane emission of three dairy breeds in Italy by a Tier 2 approach
Pitch	12:56	Marko Bizjak	Greenhouse gas emission intensity of milk production in three Slovenian sheep breeds
Pitch	12:57	Marija Bric	Effect of housing system and season on methane and carbon dioxide concentration in a dairy cow barn
Pitch	12:58	Enyew Negussie	Methane phenotyping with different methods and estimates of parameters for the Nordic Red cattle in Finland
Pitch	12:59	Valentina Ferrari	Environmental impact of growing young stock using LCA approach: an example with data recorded at ANAFIBJ genetic centre
13:00 – 2	14:30 LUNC	Н	

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		Poster			
		Oral	14:30	Kirsi Leppikorpi	Factors affecting the success of test milking and milk sampling in milk recording on Finnish AMS-farms
Session 3:	Session 3:	Oral	14:45	Christian Ammon	Possibilities for estimating milk carryover during milk sampling in automatic milking systems (AMS) in field tests, by ICAR test centers
Thursday, May 23, 2024	the Accuracy of	Oral	15:00	Justin Frankfort	The carry-over contamination of milk recording samples; learning from the past to improve sample quality in the future.
		Oral	15:15	Matthew Thompson	From Milk Recorder to Bulk Tank: Understanding The Factors Affecting Consistency In Fat and Protein Reporting
Steven Sieve	Steven Sievert	Oral	15:30	Xiaolin Wu	Analysis of Factors Affecting Daily Milk Yields: An Initial Case Study in an Automatic Thrice-Milking Farm
		Oral	15:45	Y. H. Yeh	Assessing the Impact of Automatic Milking Systems on Milk Free Fatty Acid Content in Taiwan
		16:00 – 16:	30 Coffee B	reak	

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		Oral	14:30	Debora Santschi Transiti	Transition Management Index: a new tool to
		Orai	14.50	Debora Santschi	assess the transition period success
		Oral	14:45	14:45 Laura Monica Dale	Predicting dairy cattle heat stress indicators using
		Orai	17.73	Laura Monica Dale	machine learning and mid infrared spectral data
		Oral	15:00	Florian Grandl	Identifying mastitis earlier by combining test day
	Session 6:	Orai	15.00	Tionan Grandi	data and AMS sensor data
	Evaluation and				Evolution of mature size, mature production and
	presentation of	Oral	15:15	Debora Santschi	the relative maturity and performance during the
Thursday,	new parameters	Orai	15.15	Debota Satitsciii	first two lactations of DHI registered Holsteins in
May 23, 2024	in herd				Canada
	management for	Oral 15:30 Poster / 15:45	15.30	Ilia Rukin	Application of machine learning methods to
Location:	dairy farms		20.00		control the milk samples analysis results reliability
ARNOLD II			15:45	Laura Monica Dale	ResKuh - development of tools, diagnostics and
	Chair:	Pitch	13.43		recommendations for better herd management
	Kai Kuwan &	Poster /		Yi-Hsin Yeh	Assessing the Impact of Automatic Milking
	Betka Logar	Pitch	15:48		Systems on Milk Free Fatty Acid Content in
		1 10011			Taiwan
		Poster /	15:51	Rafael Guimarães	Challenges and Opportunities in Sustainable
		Pitch	15.51	Vizoná	Genetic Improvement of Zebu Dairy Farming
		Poster /	15:54	Maddalena Zucali	Simulation of natural lighting contribution to the
		Pitch			illuminance of the milker's visual task area
		16:00 – 16:	30 Coffee B		

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		Poster			
		Oral	14:30	Birgit Fuerst-Waltl	Introduction of a genetic evaluation for longevity in Tyrol Mountain sheep
	Session 7:	Oral	14:45	Jean-Michel Astruc	Breeding for resistance to parasites in French dairy sheep: towards an increase in resilience and sustainability of sheep dairying
	Breeding for agroecological	Oral	15:00	Pera Herold	Breeding dairy goats for organic farming – sustainable and animal-friendly
Thursday, May 23, 2024	transition in sheep and goats	Oral	15:15	Georgios Arsenos	Standard operating procedures for efficient management of small ruminant farms
Location:	Chair:	Oral	15:30	Pera Herold	Conformation recording as auxiliary trait for functionality and fitness in dairy goats
KOMPAS	Jean-Michel Astruc & Mojca	Oral	15:45	Lucia Trapanese	Assessment of Mediterranean buffalo lactation curves shape using lactation models
	Simčič	Pitch	16:00	Gregor Šen	The estimation of variance components for litter size in two Slovenian sheep breeds
		Pitch	16:02	Yueh Tung Chen	Early Detection of Multifetal Pregnancies in Alpine Goats Using Pregnancy-Associated Glycoprotein (PAG) Concentrations in Milk
		16:00 – 16:	30 Coffee B	reak	

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		Oral	16:30 Peter Dovč	Milk cell transcriptome opens a new dimension in	
			10.50	Teter bove	the mammary gland biology research
		Oral	Oral 16:45	Mark Waters	Unlocking Genetic Potential: The National
		Orai	10.43	IVIAIR VVACCIS	Genotyping Programme for Ireland's Cattle Herd
					Opportunities and obstacles of the use of
		Oral	17:00	Marija Špehar	genomic data in sheep breeding – large versus
	Session 9:				small populations
	Genomic's				Estimating the Effect of the Kappa Casein
Thursday,	impact on	Oral 17:15	17:15	Yaniv Lavon	Genotype on Milk Coagulation Properties in
May 23, 2024	Livestock			Israeli Holstein Cows	
	Sustainability	Oral	17:30	Asha Miles	Genetic and genomic evaluations of quantitative
Location:					milking speed and duration phenotypes
ARNOLD I	Chair:	Poster / Pitch 17:45	47.45		The genetic trends for beta and kappa casein
	Gerben de Jong		Kacper Żukowski	identified in the Polish Holstein-Friesian	
					population
		Poster /	47.40	lianahana Oir	Igenity® BeefxDairy: A genomic tool for
		Pitch	17:48	Jiansheng Qiu	identifying genetic merit of Beef on Dairy cross calves
		Poster /	Poster / 17:51	Ana Encina Martínez	Design of a medium density chip (microarray) for the genetic management of Pura Raza Española
		Pitch	17.51	Alia Liicilia iviai tiilez	horses and related breeds.
					Horses and related preeds.

Day / Location	Session / Chair	Oral / Poster	Time	Speaker	Topic
Thursday,	Session 4: Value Adding to	Oral	16:30	Kenneth Evers	More than just a tag – Maximizing RFID!
May 23, 2024	Electronic Identification	Oral	17:00	Anthony Browne	Artificial Intelligence meets Animal Identification
Location: ARNOLD II	Chair: Ken Evers		17:30	Giuseppe Todde	Advancements in combining electronic animal identification and augmented reality technologies in digital livestock farming

Day / Location	Session / Chair	Oral /	Time	Speaker	Topic
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	Session 10: New approaches	Oral	16:30	Ilka Klaas	Improving animal health and welfare by using sensor data in herd management and dairy cattle breeding – a joint initiative of ICAR and IDF
Thursday, May 23, 2024	May 23, 2024 for management and breeding Location:	Oral	17:00	Aashish Gyawali	Body Conditions Scoring – first proposal for recommendations for recording and use for herd management, genetic improvement and welfare assessment.
KOMPAS		Oral	17:15	Tomas Klingström	A Gigacow example, weather data in longitudinal studies on heat stress
	Danner & Luiz Brito	Oral	17:30	Caspar Matzhold	Evaluating Farm Management Practices: A semi- supervised clustering approach to assess the impact of technologies

Oral	17:45	Maxence Bruyas	Performance monitoring in the cattle sector innovates with 3D imagery
Oral	18:00	Fiona Louise Guinan	Calculating resilience indicators in US Holstein cows using pen-level data
Poster / Pitch	18:15	Lorenzo Benzoni	HappyFeet: Hoof Health Project in Italian Holstein cattle
Poster / Pitch	18:18	Joanna Kwaśniewska	Selection of cows at risk of subclinical ketosis as part of the milk recording of dairy cattle in Poland in 2014-2022
Poster	-	Ivanka Hadzic	Cow nutrition and hoof care in extensive dairy farming in two regions in republic of Serbia

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Thursday,	Session 12: Resilience for Dairy	Poster		Jocelyn Fagon	Resilience for dairy (R4D), a journey towards sustainable farming
May 23, 2024	Chair: Marija Klopčič	Poster		Marija Klopčič	Dairy sector in Europe: needs and solutions

Day / Location	Session / Chair	Time	Speakers	Topic
Friday, May 24, 2024 Location: ARNOLD I/II	Session: ICAR 2024 Wrap up meeting Chair: Daniel Lefebvre	08:00 – 10:30	Matt Shaffer & Jo Newton, Robert H. Fourdraine, Josée Bordeleau, Birgit Gredler-Grandl and Roel Veerkamp, Maddalena Zucali and Raffaella Finocchiaro, Steven Sievert, Kai Kuwan, Jean-Michel Astruc, Gerben de Jong Ken Evers, Christa Egger Danner and Luiz Brito	ICAR 2024 Wrap up meeting
		10:30 – 11:00 Coffee I		