

International Sheep Genomics and the International Goat Genome Consortiums combined virtual meeting



June 8th/9th to June 10th/11th 2021



Chairs: Shannon Clarke (AgResearch, NZ) and Gwenola Tosser-Klopp (INRAE, France)

Session	Title	Presenting Author	Affiliation	Format	Time allocation Presentation + Questions (min)
Session 1: June 9th 8am NZST/previous day (June 8th 10pm CEST, 3pm CDT etc)					
Genome structure and function					
1	Functional annotation of the reference Rambouillet sheep genome	Kimberly Davenport	Department of Animal, Veterinary, and Food Science, University of Idaho, USA	Presentation	20
1	A gene expression atlas of the goat brain	María Gracia Luigi-Sierra	CRAG Centre de Recerca Agrigenòmica (CRAG), Spain	Presentation	20
1	High-quality ovine reference genome assemblies	Ben Rosen	USDA, ARS, Animal Genomics and Improvement Laboratory, USA	Presentation	15

1	Underpinning sheep genomics - variant calling from the “1000 Sheep Genome Project” (SheepGenomeDB)	Rudiger Brauning	AgResearch, NZ	Presentation	10
1	An atlas of variant ages in sheep genome	Charlotte Her	Université Grenoble Alpes, France	Presentation	15
1	FarmGTEx and the characterisation of transcriptomic variation in sheep and goat	Pau Navarro	The University of Edinburgh, United Kingdom	Presentation	10
1	Constructing the Ovine Pan-genome	Brenda Murdoch	Department of Animal, Veterinary, and Food Science, University of Idaho, USA	Presentation	15

Session 2: June 10th 8am NZST/previous day (June 9th 10pm CEST, 3pm CDT etc)

2	Expression Profile of Ghrelin gene in goat breeds in Kerala	Charlotte Coretta Rodricks	Department of Animal Genetics and Breeding, College of Veterinary and Animal Sciences, Mannuthy, India	Lightning talk	5
2	Determining developmental transcriptome differences in tissues related to growth traits in sheep using RNA-sequencing	Shernae Woolley	The Roslin Institute and Royal (Dick) School of Veterinary Studies, The University of Edinburgh, United Kingdom	Lightning talk	5

Complex trait studies and epigenetics

2	Transcriptomic analysis of the early mucosal host response in goats infected with Haemonchus contortus	Jean-Christophe Bambou	INRAE, URZ, Petit-Bourg (Guadeloupe), France	Presentation	20
2	Identification of novel loci associated with facial eczema tolerance in New Zealand sheep	Kathryn McRae	AgResearch, NZ	Lightning talk	5
2	Functional genome and microbiome in blood of goats affected by the gastrointestinal pathogen Haemonchus contortus	Yonathan Tilahun	School of Agriculture and Applied Sciences, Langston University, USA	Lightning talk	5
2	A recessive stop-gain mutation in CCDC65 is associated with lamb mortality icomplen French Lacaune dairy sheep	Maxime BEN BRAIEK	GenPhySE, Université de Toulouse, INRAE, France	Presentation	15

2	Genome-wide association studies for meat quality traits in New Zealand sheep imputed to whole-genome sequence	Andrew Hess	AgResearch, NZ	Presentation	10
2	Genome-wide association study of reproductive efficiency in Florida dairy goats	Chiraz Ziadi	Departamento de Genética, Universidad de Córdoba, Spain.	Lightning talk	5
2	Genome-wide analysis of copy number variation identifies regions associated with fat deposition in thin and fat-tailed sheep breeds	Mohsen Gholizadeh	Department of Animal Science, Faculty of Animal and Aquatic Science, Sari Agricultural Sciences and Natural Resources University, Iran	Lightning talk	5
2	Development of epigenetic clocks for New Zealand livestock	Alex Caulton	University of Otago and AgResearch, NZ	Presentation	15
2	Whole genome bisulfite sequencing reveals tissue specific DNA methylation profiles in Sheep.	Suraj Bhattarai	Department of Animal & Veterinary Sciences, University of Vermont, USA	Presentation	15

Session 3: June 11th 8am NZST/previous day (June 10th 10pm CEST, 3pm CDT etc)

Genomic selection

3	Industry implementation of genomic improvement in dairy goats using DNA sequencing	John McEwan	AgResearch, NZ	Presentation	20
3	Using sequence variants to better characterize a QTL region and improve the accuracy of genomic evaluation in Saanen goats	Rachel Rupp	GenPhySE, Université de Toulouse, INRAE, ENVT, France	Presentation	15
3	Accounting for genotype uncertainty of genotyping-by-sequencing data for genomic analyses in New Zealand dairy goats	Andrew Hess	AgResearch, NZ	Lightning talk	5

Genetic diversity & selection signatures

3	Selection signature analysis of South African Merino-derived breeds identifies sweeps important in production traits	Edgar Dzomba	Discipline of Genetics, School of Life Sciences, University of KwaZulu-Natal, South Africa	Presentation	15
---	---	---------------------	--	--------------	-----------

3	Y-chromosomal haplotypes in domestic and wild goats reveal ancient paternal bottlenecks and recent introgressions	Hans Lenstra	Utrecht University, Netherlands	Presentation	15
3	Evolutionary history of Pachyceriform sheep	Sarah d Santos	Department of Biological Sciences, University of Alberta, Canada	Lightning talk	5
3	Runs of homozygosity to unravel genetic changes associated with domestication and modern selection in goats	Christine Flury	School of Agricultural, Forest and Food Sciences, Bern University of Applied Sciences, Zollikofen, Switzerland.	Lightning talk	5
3	Molecular characterization of the Montecristo feral goats in the Mediterranean context	Elisa Somenzi	Università Cattolica del S. Cuore, Piacenza, Italy	Lightning talk	5
3	Goat genomes from earliest managed herds in the Zagros Mountains, c. 8,000 BC	Kevin Daly	Trinity College, Ireland	Lightning talk	5
3	Genomic analyses reveal the influence of geographic origin and signatures of selection in Boer goats from different countries	Khanyisile Hadebe	Discipline of Genetics, School of Life Sciences, University of KwaZulu-Natal, South Africa	Lightning talk	5
3	Genomic estimation of inbreeding and effective population size in three Czech goat populations	Vostrý Luboš	Czech University of Life Sciences, Czech Republic	Lightning talk	5
3	Whole-genome sequencing reveals selection signals among Chinese, Pakistani and Nepalese goats	Yefang Li	CAAS-ILRI Joint Laboratory on Livestock and Forage Genetic Resources, Institute of Animal Science, Chinese Academy of Agricultural Sciences (CAAS), China	Lightning talk	5
3	Run of Homozygosis in the main historical lines of Spanish Merino Sheep	Gabriel Anaya	Departamento de Genética, University of Córdoba, Spain	Lightning talk	5