ISAG CONFERENCE 2017, Dublin, Ireland

Applied Sheep and Goat Genetics

Organised by a standing committee yes

Date and meeting time: 20th July 2017, 14:30 – 16:10

Chair, name and contact email: Gesine Lühke, Gesine.Luehken@agrar.uni-giessen.de

Agenda / programme:

Time	Speaker	Title
14:30	L. Drouilhet	Introgression of wool-shedding genes into the Romane breed sheep
14:45	A. Haile	Community-based sheep breeding programs in Ethiopia resulted in substantial genetic gains
15:00	L. Chantepie	Identification of two major genes affecting prolificacy in the French Noire du Velay sheep
15:15	M.R. Mousel	Genomic Regions Associated with Entropion in Columbia, Polypay, and Rambouillet Breeds of Sheep
15:30	L. Jiang	Genome-wide scan reveals NF1 locus is associated with fat tail phenotype rather than high-altitude adaptation in Asian sheep
15:45	K.M. Davenport	Investigating genetic associations with meiotic recombination in rams
16:00		Decisions on sheep and goat comparison tests for 2018/19
~16.05		Meeting ends

Number of participants at meeting: about 50

Summary of the meeting:

All presentations were given as scheduled. The different topics were nicely presented and interesting points were discussed by the auditorium.

The following decisions were made (no votes against):

1) In 2018/19, STR comparison tests for sheep and goats will be conducted.

2) Duty labs for 2018/19 will be:
Sheep CT: Labogena, France (Alexandre Vasilescu; alexandre.vasilescu@labogena.fr)
Goat CT: Laboratorio de Genética Molecular Aplicada, Animal Breeding Consulting, S.L., Spain (Amparo Martinez; amparomartinezuco@gmail.com)

3) Decisions about implementation of comparison tests for parentage testing using SNPs for sheep and/or goat will be adjourned until the next conference (Lleida, 2019).

In order to gain a picture of the current opinions about the plan to ship in future comparison test samples to participants by a central lab in Europe, the workshop attendants were asked to vote in favour or against. Result: 0 in favour, 6 against, 2 undecided (large majority did not give a vote).

Committee members (the old and new committee)

Chair	**term of service**	**E mail address**
Gesine Lühken	2014-2019	Gesine.Luehken@agrar.uni-giessen.de

Other members	**term of service**	**E mail address**
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*substitutes Julie Ogereau since February 2017

List of recommended markers with primer information
- see list on ISAG homepage

Duty laboratory for the next comparison test
- see decision on point 2) above

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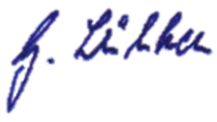

Chair

ISAG ovine microsatellite (STR) panel

Marker	Forward primer sequence (5'-3')	Reverse primer sequence (5'-3')	Fragment sizes in bp (samples CT 2015-16)
AMEL	CAGCCAAACCTCCCTCTGC	CCCGCTTGGTCTTGTCTGTTGC	(X and Y)
CSRD247	GGACTTGCCAGAACTCTGCAAT	CACTGTGGTTTGTATTAGTCAGG	209-255
ETH152/D5S2	TACTCGTAGGGCAGGCTGCCTG	GAGACCTCAGGGTTGGTGATCAG	186-200
INRA005	TTCAGGCATACCCTACACCACATG	AAATATTAGCCAACTGAAAACTGGG	125-147
INRA006	AGGAATATCTGTATCAACCGCAGTC	CTGAGCTGGGGTGGGAGCTATAAATA	110-132
INRA023	GAGTAGAGCTACAAGATAAACTTC	TAACTACAGGGTGTTAGATGAACTC	194-216
INRA063	GACCACAAAGGGATTTGCACAAGC	AAACCACAGAAATGCTTGGAAG	169-201
INRA172	CCAGGGCAGTAAAATGCATAACTG	GGCCTTGCTAGCCTCTGCAAAC	126-160
MAF065	AAAGGCCAGAGTATGCAATTAGGAG	CCACTCCTCCTGAGAATATAACATG	125-137
MAF214	AATGCAGGAGATCTGAGGCAGGGACG	GGGTGATCTTAGGGAGGTTTTGGAGG	189-265
MCM042	CATCTTTCAAAAGAACTCCGAAAGTG	CTTGGAATCCTTCCTAACTTTCGG	87-107
MCM527	GTCCATTGCCTCAAATCAATTC	AAACCACTTGACTACTCCCCAA	164-170
OARFCB20	GGAAAACCCCCATATATACCTATAC	AAATGTGTTTAAGATTCCATACATGTG	87-113

ISAG caprine microsatellite (STR) panel

Marker	Forward primer sequence (5'-3')	Reverse primer sequence (5'-3')	Fragment sizes in bp (samples CT 2015-16)
CSRD247	GGACTTGCCAGAACTCTGCAAT	CACTGTGGTTTGTATTAGTCAGG	216-240
ILSTS008	GAATCATGGATTTTCTGGGG	TAGCAGTGAGTGAGGTTGGC	174-182
ILSTS19	AGGGACCTCATGTAGAAGC	ACTTTTGGACCCTGTAGTGC	146-152
ILSTS87	AGCAGACATGATGACTCAGC	CTGCCTCTTTTCTTGAGAGC	133-151
INRA005	TTCAGGCATACCCTACACCACATG	AAATATTAGCCAACTGAAAACTGGG	115-121
INRA006	AGGAATATCTGTATCAACCGCAGTC	CTGAGCTGGGGTGGGAGCTATAAATA	107-123
INRA023	GAGTAGAGCTACAAGATAAACTTC	TAACTACAGGGTGTTAGATGAACTC	195-215
INRA063	GACCACAAAGGGATTTGCACAAGC	AAACCACAGAAATGCTTGGAAG	171-177
MAF65	AAAGGCCAGAGTATGCAATTAGGAG	CCACTCCTCCTGAGAATATAACATG	117-135
MCM527	GTCCATTGCCTCAAATCAATTC	AAACCACTTGACTACTCCCCAA	152-164
OARFCB20	GGAAAACCCCCATATATACCTATAC	AAATGTGTTTAAGATTCCATACATGTG	95-105
SRCRSP5	GGACTCTACCAACTGAGCTACAAG	TGAAATGAAGCTAAAGCAATGC	163-179
SRCRSP8	TGCGGTCTGGTTCTGATTTCAC	CCTGCATGAGAAAGTCGATGCTTAG	220-240
SRCRSP23	TGAACGGGTAAAGATGTG	TGTTTTTAATGGCTGAGTAG	77-103