

Horse Genetics and Genomics Workshop

Organised by a Standing Committee: YES NO

Meeting information

Date: July 27, 2021

Time: 9:00AM CDT

Number of participants: 63

Chair

Name: Ted Kalbfleisch

Affiliation: University of Kentucky

Contact email: ted.kalbfleisch@uky.edu

Co-Chair (optional)

Name: Tomas Bergstrom

Affiliation: Swedish University of Agricultural Sciences

Contact email: tomas.bergstrom@slu.se

Agenda

Standing committee members:

Ted Kalbfleisch (chair)
Tomas Bergstrom (co-chair)
Leslie Bickel
Tomasz Zabek

Introduction (10 minutes)

Will selection for elasticity maintain the allele causing fragile foals? M Ablondi* (5 minutes)

QTLs associated with alternative gaits in Colombian Paso Horses. M Novoa-Bravo* (5 minutes)

Genetic structure of maternal lines in Przewalski horses based on mtDNA variation. A.D. Musial* (5 minutes)

Epigenetic characterization of horse centromeric domains in different tissues and individuals.

E. Cappelletti* (5 minutes)

Breakout Session 1: M Ablondi & M Novoa-Bravo (20 minutes concurrent with breakout session 2)

Breakout Session 2: A.D. Musial & E. Cappelletti (20 minutes concurrent with breakout session 1)

Election of new members (10 minutes)

Genomic improvement of the horse X chromosome and characterization of the pseudoautosomal boundary. Matthew Jevit* (5 minutes)

Integration of long-read sequencing technology improves transcriptome annotation of the equine genome. S Peng* (5 minutes)

Transcriptome analysis of eight priority tissues in two Thoroughbred stallions for the Functional Annotation of Animal Genomes project. AM Barber* (5 minutes)

Rare and common variant discovery by whole-genome sequencing of 101 Thoroughbred racehorses. Teruaki Tozaki* (5 minutes)

Breakout Session 3: AM Barber & S Peng (20 minutes concurrent with breakout session 4)

Breakout Session 4: Teruaki Tozaki & Matthew Jevit (20 minutes concurrent with breakout session 5)

Open Discussion (20 minutes)

Meeting Close.

Summary of the meeting

It was a well-attended meeting. All workshop podium presentations were pre-recorded, and workshop members were required to watch the presentations prior to the workshop. All presenters presented 5-minute summaries with time for 1 or 2 questions. Following the first 4 presentations, there were two breakout rooms with 2 speakers each where attendees were able to ask questions, and join in discussion. The same format was executed for the second group of 4 talks. Finally there were 20 minutes allocated at the end of the meeting for questions, comments, and announcements. An announcement from the Horse FAANG leadership was made reminding the community of the adopt a tissue program with a description of the assays available, including a new IsoSeq assay.

New Committee chair

Chair: Leslie Bickel

Term of service (*add years of first and second term of service*): 8

Affiliation: University of California Davis

E-mail address: labickel@ucdavis.edu

New Committee co-chair (optional)

Chair: Tomasz Zabek PhD., DSc.

Term of service (<i>add years of first and second term of service</i>):8
Affiliation: National Research Institute of Animal Production, 1,Krakowska Street, Balice, Poland
E-mail address: tomasz.zabek@iz.edu.pl

Note: One term runs for two bi-annual conferences (i.e. four years)

New Committee members

Other committee members	First term of service (from year to year)	Second term of service (from year to year)	Email address
Felipe Avila	2021-2025		ffavila@ucdavis.edu
Samantha Brooks	2021-2025		samantha.brooks@ufl.edu
Carrie Finno	2021-2025		cjfinno@gmail.com
Tomasz Zabek	2019-2023	2023-2027	tomasz.zabek@iz.edu.pl
Leslie Bickel	2019-2023	2023-2027	labickel@ucdavis.edu