



Comparative & Functional Genomics Workshop

Organised by a Standing Committee: YES

Meeting information

Date: Thursday 29 July 2021
Time: 9:00 AM - 12:00 PM Central US
Number of participants: 73-92

Chair

Name: Fiona McCarthy
Affiliation: University of Arizona
Contact email: fionamcc@email.arizona.edu

Co-Chair (optional)

Name:
Affiliation:
Contact email:

Agenda

Comparative and Functional Genomics

SYMPOSIA AND ORAL SESSIONS

Comparative and Functional Genomics Workshop (orals)	
Chair(s): Fiona McCarthy, University of Arizona	
Location: Live 1	
Date & Time: Thursday, July 29, 9:00 AM - 12:00 PM	
9:00 AM	85279 Invited Workshop Presentation: The Functional Annotation of Animal Genomes Project: Progress and challenges for our continued global effort. Peter W. Harrison*, <i>EMBL-European Bioinformatics Institute, Cambridge, United Kingdom.</i>
9:30 AM	Panel 1: FAANG progress to date, gaps, challenges, and the path forward. Peter Harrison, Christine Elisk, Emily Clark.
10:00 AM	85544 Insights into translation through tRNA sequencing and ribosome profiling. A. Goldkamp* and D. Hagen, <i>Oklahoma State University, Stillwater, OK, USA.</i>
10:15 AM	85406 Reference transcriptomes of porcine peripheral blood immune cells created through bulk and single-cell RNA sequencing. J Herrera-Uribe ¹ , J.E. Wiarda ^{2,5} , S.K. Sivasankaran ^{2,6} , L. Daharsh ¹ , H. Liu ¹ , K.A. Byrne ² , T.P.L. Smith ³ , J.K. Lunney ⁴ , C.L. Loving ² , and C.K. Tuggle* ¹ , ¹ <i>Iowa State University, Ames, IA, USA</i> , ² <i>USDA-ARS-NADC, Ames, IA, USA</i> , ³ <i>USDA-ARS-MARC, Clay Center, NE, USA</i> , ⁴ <i>USDA-ARS-BARC, Beltsville, MD, USA</i> , ⁵ <i>Immunobiology Program Iowa State University, Ames, IA, USA</i> , ⁶ <i>Genome Informatics Facility Iowa State University, Ames, IA, USA.</i>
10:30 AM	Panel 2: Organizing & coordinating FAANG at a global level. Christopher Tuggle, Elisabetta Giuffra, Lingzhao Fang.
11:00 AM	85387 Detailed molecular and epigenetic characterization of pig IPECJ-2 and chicken SL-29 cell lines. J de Vos* ¹ , R Crooijmans ¹ , M Derks ¹ , S Kloet ² , M Groenen ¹ , and O Madsen ¹ , ¹ <i>Animal Breeding and Genetics Group, Wageningen University & Research, Wageningen, The Netherlands</i> , ² <i>Leids Universitair Medisch Centrum, Leiden, The Netherlands.</i>

11:15 AM	85485	Genome-wide analysis of transcription start sites across <i>Bos indicus</i> tissues. Mehrnush Forutan*, Elizabeth Ross, Loan Nguyen, and Ben Hayes, <i>Queensland Alliance for Agriculture and Food Innovation, Brisbane QLD, Australia.</i>
11:30 AM		Business meeting.

Summary of the meeting

The organizers of the conference communicated with FAANG Co-ordinators to develop a program that included opportunities to discuss the future of FAANG with society members in attendance. Two 30 min discussion panels were held as part of this workshop and both panels had the highest attendances among the workshop program. We thank the FAANG Co-ordinators and the panellists for their participation.

Peter Harrison (EBI) was an invited speaker who provided an overview of FAANG Data Analysis prior to the first panel discussion. An additional four presentations were selected by the committee, with a preference for abstracts allocated directly to the Functional and Comparative Genomics section. The topics of these presentations included tRNA sequencing and ribosome profiling, single cell transcriptome analysis of porcine immune cells, epigenetic characterization of pig and chicken cell lines and genome-wide analysis of transcription start sites across *Bos indicus* tissues.

During the business meeting attendees elected a new Comparative and Functional Genomics Workshop Chair and five new committee members. The newly elected committee has seven members. Discussion focused around how we could co-ordinate future workshops with other workshops (e.g., workshops on Epigenetics, Domestic Animal Sequencing) and with the ongoing FAANG effort.

New Committee chair

Chair: Christa Kühn
Term of service: 2021-2025
Affiliation: Institute of Genome Biology, Leibniz Institute for Farm Animal Biology (FBN), Germany

E-mail address: kuehn@fhn-dummerstorf.de

New Committee co-chair (optional)

Chair:
Term of service (<i>add years of first and second term of service</i>):
Affiliation:
E-mail address:

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
Cristina Ovilo	2016-2020	2021-2025	ovilo@inia.es
Marcel Amills	2021-2025		marcel.amills@cragenomica.es
Emily Clark	2021-2025		emily.clark@roslin.ed.ac.uk
Lingzhao Fang	2021-2025		Lingzhao.fang@ed.ac.uk
Eveline Ibeagha-Awemu	2021-2025		eveline.ibeagha-awemu@agr.gc.ca
Stephanie McKay	2021-2025		Stephanie.McKay@uvm.edu

COMPARISON TEST (2020-2021) NO