



ISAG . 2019

**37th International Society for
Animal Genetics Conference**

July 7 - 12, 2019 - Lleida, Spain

Avian Genetics and Genomics

Organised by a standing committee: YES

Meeting information

Date: July 9, 2019

Time: 9:00-12:00

Number of participants: 80

Chair

Name: Richard Crooijmans

Affiliation: Wageningen University & Research

Contact email: richard.crooijmans@wur.nl

Agenda

Avian Genetics and Genomics workshop: Auditorium 2

09:00 Introduction: Richard Crooijmans, Wageningen University & Research.

09:05 OP59 Initiative for Global Chicken Genome Project (GCGP). M.-S. Peng^{*1}, J. Han^{2,3}, O. Hanotte^{4,5}, D.-D. Wu¹, and Y.-P. Zhang¹, ¹Kunming Institute of Zoology, Chinese Academy of Sciences, Kunming, Yunnan, China, ²International livestock Research Institute, Nairobi, Kenya, ³Institute of Animal Science, Chinese Academy of Agricultural Sciences, Beijing, China, ⁴International livestock Research Institute, Addis Ababa, Ethiopia, ⁵University of Nottingham, University Park, Nottingham, UK.

09:20 OP60 A new 55K SNP genotyping array for the chicken. R. Liu^{*1}, S. Xing^{1,2}, R. P. M. A. Crooijmans², G. Zhao¹, and J. Wen¹, ¹Chinese Academy of Agricultural Sciences Institute



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of Animal Science, Beijing China, ²Animal Breeding and Genomics, Wageningen University & Research, Wageningen, the Netherlands.

09:35 OP61 An open chromatin region on GGA1 has an important effect on regulating chicken growth. X. Cao*^{1,2}, Y. Wang^{2,3}, and X. Hu^{1,2}, ¹College of Biological Sciences, China Agricultural University, Beijing, China, ²State Key Laboratory of Agro-biotechnology, China Agricultural University, Beijing, China, ³College of Animal Science and Technology, China Agricultural University, Beijing, China.

09:50 OP64 Transcriptome sequencing reveals key potential long non-coding RNAs related to duration of fertility trait in the uterovaginal junction of egg-laying hens. A. Adetula*¹, L. Gu¹, C. Nwafor², X. Du³, S. Zhao¹, and S. Li¹, ¹Key Laboratory of Agricultural Animal Genetics, Breeding, and Reproduction, Ministry of Education, Key Laboratory of Poultry Genetics and Breeding of the Ministry of Agriculture and Rural Affairs, Huazhong Agricultural University, Wuhan, Hubei Province, China, ²Faculty of Agriculture, Benson Idahosa University, Benin, Edo State, Nigeria, ³College of Informatics, Huazhong Agricultural University, Wuhan, Hubei Province, China.

10:05 OP65 Sauropsida ribosomal repeat: Deciphering of the intergenic spacer in chicken and terrapin. A. Dyomin^{1,2}, S. Galkina*¹, V. Fillon³, S. Cauet⁴, C. Lopez-Roques⁵, N. Rodde⁴, C. Klopp⁶, A. Vignal³, A. Sokolovskaya¹, A. Saifitdinova^{1,7}, and E. Gaginskaya¹, ¹Saint Petersburg State University, Saint Petersburg, Russia, ²Saratov State Medical University, Saratov, Russia, ³INRA-GenPhySe, Castanet Tolosan, France, ⁴French Plant Genomic Center CNRGV-INRA, Castanet Tolosan, France, ⁵INRA-GeT-PlaGe, Castanet Tolosan, France, ⁶INRA-Sigenae, Castanet Tolosan, France, ⁷Herzen State Pedagogical University, Saint Petersburg, Russia.

10:20 OP66 Genome-wide association study of dwarf phenotypes in Dutch chicken breeds. Z. Wu*, C. Bortoluzzi, M. F. L. Derks, M. A. M. Groenen, and R. P. M. A. Crooijmans, Animal Breeding and Genomics, Wageningen University & Research, Wageningen, the Netherlands. 10:35 Coffee/Tea Break. 11:00 OP67 Runting and stunting syndrome in sex-linked dwarf chicken is associated with mitochondrial DNA depletion. H. Li*, Q. Nie, Q. Luo, W. Luo, and X. Zhang, Department of Animal Genetics, Breeding and Reproduction, College of Animal Science, South China Agricultural University, Guangzhou, Guangdong,

China. Coffee/Tea break Foyer/Hall 10:35 – 11:00

11:15 OP68 Discovering lethal alleles across the turkey genome using transmission ratio distortion approach. E. A. Abdalla*¹, S. Id-Lahoucine^{1,2}, B. J. Wood^{1,3}, A. Cánovas¹, J. Casellas², and F. C. Baes¹, ¹Centre for Genetic Improvement of Livestock, University of Guelph, Guelph, ON, Canada, ²Departament de Ciència Animal i dels Aliments, Universitat Autònoma de Barcelona, Bellaterra, Barcelona, Spain, ³Hybrid Turkeys, Kitchener, ON, Canada.

11:30 OP69 Effect of gga-miR-1612 and gga-miR-6701-3p on ALV induced lymphoma cell line DT40 by targeting BCL11B. L. Qiu*¹, L. Zhao¹, X. Liu², and G. Chang¹, ¹Yangzhou University, Yangzhou, Jiangsu, China, ²Poultry Institute, Chinese Academy of Agricultural Science, Yangzhou, Jiangsu, China.

11:45 OP71 Integrated metabolomic and transcriptomic analysis evaluating heat and feed stress in layer chickens. D. Laloë¹, F. Jehl², C. Desert², M. Boutin², S. Leroux³, D. Esquerre⁴,

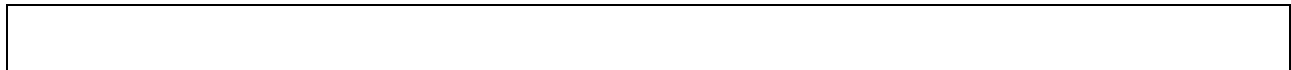


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C. Klopp⁵, D. Gourichon⁶, F. Pitel³, S. Lagarrigue², and T. Zerjal*¹, ¹INRA, GABI, Jouy-en-Josas, France, ²INRA-AGROCAMPUS OUEST, Saint Gilles, France, ³INRA, GenPhySE, Castanet Tolosan, France, ⁴INRA, Plateforme GENOTOUL, Castanet-Tolosan, France, ⁵INRA, SIGENAE, Castanet-Tolosan, France, ⁶INRA, PEAT, Nouzilly, France.

12:00 Integrating Ecological Niche Modelling with genomics to dissect tropical adaptation in Ethiopian indigenous chicken. A. Vallejos⁵, Kebede*^{1,2}, K. Tesfaye¹, G. Belay¹, T. Dessie³, N. Spark⁴, O. Hanotte^{3,5}, L. Raman⁵, and A. Gheyas^{4,5}, ¹Addis Ababa University (AAU), Addis Ababa, Ethiopia, ²Amhara Regional Agricultural Research Institute (ARARI), Bahir Dar, Ethiopia, ³International Livestock Research Institute (ILRI), Addis Ababa, Ethiopia, ⁴Center for Tropical Livestock Genetics and Health (CTLGH), The Roslin Institute, University of Edinburgh, Edinburgh, UK, ⁵School of Life Sciences, University of Nottingham, Nottingham, UK.

12:15 Workshop Business Meeting



Summary of the meeting

- Genomes and variation
- Gene regulation
- Using variation to detect trait
 - Dwarfism
 - Lethal alleles
 - Heat and feed stress
 - Positive selection
- Workshop Business Meeting
 - need for new members

new committee members were selected to replace the members which did need to be replaced

Committee chair (the new chair)

Chair: Klaus Wimmers

Term of service: 2017-2025

Affiliation: Leibniz Institute for Farm Animal Biology (FBN)

E-mail address: wimmers@fbn-dummerstorf.de



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Committee members (the new committee)

Other members	Term of service	E mail address
Susan Lamont	ISAG2014-2023	sjlamont@iastate.edu
Xiaoxiang Hu	ISAG2014-2023	huxx@cau.edu.cn
Swetlana Galina	ISAG2017-2025	svetlana.galkina@mail.ru
Min-Cheng. Peng pengminsheng@mail.kiz.ac.cn	ISAG2019-2027	
Adeyinka Adetula	ISAG2019-2027	queeenyk10@yahoo.com

For information - please delete this page from the report

IMPORTANT INFORMATION FROM THE WORKSHOP AND STANDING COMMITTEE GUIDELINES:

All members of a standing committee need to have individual membership of ISAG throughout the time of service. If new committee members are not ISAG members when elected it is necessary to become so as soon as possible.

The workshop Chair has to compile the report of the workshop and then circulate it to the members of the Standing Committee for any comment and revision. The report then has to be emailed to the ISAG secretary within the noted deadline.

PLEASE EMAIL A WORD VERSION AND A SIGNED PDF VERSION OF THIS REPORT TO THE ISAG SECRETARY: ISAGsecretary@assoqh.org

DEADLINE AUGUST 31st 2019

A draft of this report will be available to all ISAG members on the ISAG web. Workshop participants are allowed to comment and may ask for revision. Such a request for revision has to be given including relevant reasons and arguments. The Secretary will send these requests to the Chair for dispute in the Standing Committee. Within two weeks the Standing Committee has to answer the Secretary. If no comments from participants have been received within two weeks, the report is considered to be approved and published on the ISAG web.

For more information please see the committee guidelines and comparison test rules.