

Avian Genetics and Genomics

Organised by a standing committee yes

Date and meeting time: July 25, 2016 from 8:30 till 12.15

Chair, name and contact email: Richard Crooijmans, richard.crooijmans@wur.nl

Agenda / programme attached yes

Number of participants at meeting: 55

Summary of the meeting including votes, decisions taken and plans for future conferences

In total 12 abstracts have been selected for an oral presentation and no invited speaker was invited for this workshop. The program was based on the following topics:

- 1. Phenotype genotype studies (QTL, GWAS, WGS)
- 2. Functional annotation of the chicken genome
- 3. Evolution, domestication and selection

Three of the speakers were not able to participate the conference due to visa problems without notification to the chair although one presentation was performed by the supervisor of the PhD student. Additional time from the two presentations was spend to discuss the other presentations. Mostly young researchers were invited to present their work as part of their thesis. The quality of the presentations was good and there was enough time for questions.

The standing committee Avian genetics and Genomics for the next meeting was shortly discussed as well as candidates for a new chair. As agreed in 2014 the present committee will be the same including the chair at the ISAG meeting 2017 in Dublin, Ireland. Potential new members for the avian genetics and genomics standing committee need to be identified for the next meeting by the present committee members.

Committee members (the new committee)

Chair	term of service	E mail address:
Richard Crooijmans	ISAG 2014-2017	richard.crooijmans@wur.nl
Other members	term of service	E mail address:
Alain Vignal	ISAG2014-2017	alain.vignal@toulouse.inra.fr
Martien Groenen	ISAG2014-2017	martien.groenen@wur.nl
Susan Lamont	ISAG2014-2017	sjlamont@iastate.edu
Xiaoxiang Hu	ISAG2014-2017	huxx@cau.edu.cn

ORAL SESSIONS & WORKSHOPS — Monday, July 25

Workshop: Avian Genetics & Genomics 8:30 - 12:00

Chair: Richard Crooijmans, Wageningen University

Sponsor: Cobb-Vantress Canvon B

- 8:30 P1003 MiRNAs expression profiling of Myostatin transgenic and wild type littermate mice by Solexa deep sequencing. R. Javed', Huazhong Agricultural University, Wuhan, China
- 8:45 P5011 Fine mapping the QTL for growth traits in outbred chicken advanced intercross lines by improved ddGBS. X Wang*, X. Cao, X. Gu, and X. Hu, China Agricultural University, Beijing, China
- 9:00 P3005 Genome-wide transcriptomic analysis of liver in sex-linked Dwarf and wild type chickens. T. Zerjal¹¹, G. Monneret¹², M. Moroldo¹, J. L. Coville¹, M. Tixier-Boichard¹, A. Rau¹, G. Nue¹², and F. Jaffrezic¹, ¹INRA, AgroParisTech, Universite Paris-Saclay, GABI, 78350 Jouy en Josas, France, ²UPMC, LPMA, Paris, France, ¹INRA, AgroParisTech, Universit² Paris-Saclay, GABI, 78350 Jouy en Josas, France, ⁴GABI, INRA, AgroParisTech, Universite Paris Saclay, 78350 Jouy en Josas, France
- 9:15 P3020 The potential relationship between comb color and egg production revealed by GWAS in Blue- shelled chicken. X. Dong', J. Li, Y. Zhang, X. Deng, and C. Wu, Key Laboratory of Animal Genetic Improvement, Beijing & Animal Genetic Resources and Molecular Breeding Laboratory, China Agricultural University, Beijing
- 9:30 P1019 Genetic introgression through selection in domestic chickens: Insight from whole genome sequence analysis. R. A. Lawal^{*1}, D. Wragg³, P. Silva⁴, K. Vanmechelen⁴, A. Vereijken⁴, D. D. Wu⁴, R. M. Al-Atiyat⁴, and O. Hanotte⁴, 'School of Life Sciences, University of Nottingham, University Park, Nottingham, United Kingdom, 'Institut National de la Recherche Agronomigue (INRA), UMR 1338 GenPhySE, 31326, Castanet Tolosan, France, 'Department of Animal Science, Faculty of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka, 'Open University of Diversity, Hasselt, Belgium, 'Hendrix Genetics, Boxmeer, Netherlands, 'State Key Laboratory of Genetic Resources and Evolution, Yunnan Laboratory of Molecular Biology of Domestic Animals, Kunming Institute of Zoology, Chinese Academy of Science, Kunning, China, 'King Saud University, Riyadh, Saudi Arabia, 'School of Life Sciences, University of Nottingham, United Kingdom

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ORAL SESSIONS & WORKSHOPS - Monday, July 25, 2016

9:45	P5035	Fine mapping of a distal chromosome 4 QTL affecting growth and muscle mass in a chicken advanced intercross line. S. Lyw, D. Arends ¹ , M. K. Nassar ^{1,2} , and G. A. Brockmann ¹ , 'Albrecht Daniel Thaer-Institut for Agricultural and Horticultural Sciences, Faculty of Life Sciences, Humboldt-Universität zu Berlin, Germany, 'Department of Animal Production, Faculty of Agriculture, Cairo University, Giza, Egypt
10:00		Break.
10:30	P1033	Relaxation of purifying selection is prevalent among domesticated animals. J. Chen ⁺¹ , X. Du ¹ , C. Zhang ² , and S. Zhao ¹ , 'Huazhong Agricultural University, Wuhan, China, 'Kib, Kunming, China
10:45	P5047	Wide genome involvement in response to long-term selection for antibody response in an experimental population of White Leghorn chickens.
		M. Lillie [*] , Swedish University of Agricultural Sciences, Uppsala, Sweden
11:00	P2025	Identification of tissue-specific promoters in chickens. C. Kern ⁺ , P. Saelao ¹ , Y. Wang ¹ , M. Halstead ¹ , J. Chitwood ¹ , T. Kim ¹ , P. J. Ross ¹ , I. Korf ⁴ , M. E. Delany ¹ , H. Cheng ¹ , and H. Zhou ¹ , ¹ University of California-Davis, ¹ USDA-ARS Avian Disease and Oncology Laboratory, East Lansing, MI
11:15	P2024	Profiling of open chromatin in chicken tissues using ATAC-seq. M. Halstead", C. Kern, P. Saelao, Y. Wang, H. Zhou, and P. J. Ross, University of California-Davis
11:30	P3052	Characterization of circular RNAs in relation to embryonic muscle development in chicken. H. Ouyang ¹ , Q. Nie ¹³ , and X. Zhang ¹ , ¹ College of Animal Science, South China Agricultural University, Guangzhou, China, ³ South China Agricultural University, Guangzhou, China
11:45	P1046	Deciphering chicken fatness trait with integrative genetics and genomics approaches. C. K. Khoo ^{,1,2} , A. Gheyas ¹ , R. Kuo ¹ , L. Eory ¹ , P. M. Hocking ¹ , and D. Burt ¹ , ¹ The Roslin Institute, Royal (Dick) School of Veterinary Studies, University of Edinburgh, United Kingdom, ³ Department of Veterinary Services, Ministry of Agriculture & Agro-Based Industry Malaysia, Putrajaya