



ISAG
CONFERENCE 2012, Cairns, Australia

Avian Genetics and Genomics

STANDING COMMITTEES / WORKSHOPS Information will be posted online

Organised by a standing committee yes

Date and meeting time: July 17, 2012

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

Agenda / programme attached yes

Number of participants at meeting:45

Summary of the meeting including votes, decisions taken and plans for future conferences
Workshop was divided in three sections: QTL/traits, Genomes, Variation detection. The first section was about heat stress in chicken including analysis of a candidate gene and mapping traditional traits (blood groups) by association mapping. Second part was about epigenetic analysis, search for imprinting genes and making of transgenic chicken. The last part was identification of CNVs in chicken, deletions within the BF1 gene in Silkie and SNP detection in quail for QTL detection.

General genomic tools developed for the avian species:

During the meeting development of a high density SNP chips was presented in chicken. Updates of the turkey genome sequence (build 4), with a new gene annotation, is on the way.

For the next ISAG meeting we hope to have a number of abstracts that also cover the other avian species.

Plans: for future conferences: The program of the Avian Genetics and Genomics Workshop of the ISAG meeting 2014 will include a new section where all participating PhD-students will have the opportunity to present their research for the whole group.

The standing committee members Hans Cheng and Miho Murajama both resigned and were thanked for their contribution. Susan Lamont was elected as new committee member.

Committee members

Chair Richard Crooijmans term of service till 2014

E mail address: richard.crooijmans@wur.nl

Other members term of service:

Alain Vignal 2014

Martien Groenen 2014

Ning Li 2016

Sue Lamont 2016

Program: Avian Genetics and Genomics Workshop ISAG 2012, Cairns Australia

Theme: Quantitative Genetics meets Molecular Genetics:

A. QTL/traits

2:05-2:15	Genomics of heat stress in poultry	Susan Lamont
2:15-2:25	The response of gene expression of HSP90AA	Zachary Lowman
2:25-2:35	Multitrait composite interval mapping	Millor Rosari
2:35-2:45	Association mapping	Christopher Ashwell
2:45-2:55	Characteristics and expression of bird specific genes	Zhoucheng Hou

B. Genome

3:00-3:10	Transcriptome-wide investigation of imprinting	Laure Fresard
3:10-3:20	Efficient production of transgenic chicken	Xiaojuan Liu

C. Variation detection

3:20-3:30	Global variation in CNV	Richard Crooijmans
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Break: Afternoon tea

4:00-4:10	Fine mapping of genomic aberrations	Jason Abernathy
4:10-4:20	Identification and screening of long deletions	Jianlin Han
4:20-4:30	SNP detection for QTL analysis in Quail	Frederique Pitel

D. Committee meeting Avian Genetics and Genomics