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| <b>Genetics and Genomics of Aquaculture Species</b> |
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STANDING COMMITTEES / WORKSHOPS      Information will be posted online

**Organised by a standing committee**      **yes**

**Date and meeting time: Thursday 20<sup>th</sup> July, 1430 hrs.**

**Chair, name and contact email: Francesca Bertolini [fbert@iastate.edu](mailto:fbert@iastate.edu) and Ross Houston [ross.houston@roslin.ed.ac.uk](mailto:ross.houston@roslin.ed.ac.uk)**

**Agenda / programme attached**

**Number of participants at meeting: ~70**

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

Ross Houston (RH) welcomed participants to the workshop on behalf of the committee. The meeting was co-chaired by RH and Francesca Bertolini (FB), with RH introducing the speakers in the session prior to the break, and FB introducing the speakers in the second session.

The scientific programme attached below included nine speakers who talked about a range of applications of genetic and genomic technology to understanding biology and improving production of diverse aquaculture species. Eight of these speakers were chosen by the committee from the submitted abstracts, and one invited speaker was funded by ISAG. The standard of talks was very high, and generated significant questions and discussion amongst the audience.

During the business meeting, RH requested feedback from the audience regarding the future of this workshop at ISAG and ideas for improvements. The audience were positive on the continuation of the workshop, and feedback suggested that it is important to advertise widely to encourage attendance. This includes the aquaculture research community, but the committee should also look to ways to bring in audience members who are specialists in genetics of other species. A suggestion was made that a virtual issue related to aquaculture could be published in Animal Genetics.

The only formal item on the agenda for the business meeting was the constitution of the standing committee and its chairs for the next meeting(s). Following many years of successful organisation by Bjorn Hoyheim (BH), the 2017 workshop organisation was led by FB and RH, with significant input from BH and Maria Saura. The existing committee proposed that the chairs of the committee should rotate, with a new committee member and co-chair proposed each year. RH proposed Maria Saura join the committee, to which nobody had any objections.

Finally, the chairs thanked the speakers, committee and local organisers for putting together a successful workshop

**Committee members (the new committee)**

|                              |                 |  |
|------------------------------|-----------------|--|
| Chair                        | term of service | E mail address:  |
| Co-chair Francesca Bertolini | 2017-2019       | <a href="mailto:fbert@iastate.edu">fbert@iastate.edu</a>                       |
| Co-chair Ross Houston        | 2017-2019       | <a href="mailto:ross.houston@roslin.ed.ac.uk">ross.houston@roslin.ed.ac.uk</a> |
| Other members                | term of service | E mail address:  |
| Maria Saura                  | 2017-2019       | <a href="mailto:saura.maria@inia.es">saura.maria@inia.es</a>                   |
| Bjorn Hoyheim                | 2017-2019       | <a href="mailto:Bjorn.Hoyheim@nmbu.no">Bjorn.Hoyheim@nmbu.no</a>               |

**Genetics and Genomics of Aquaculture Species**  
**Thursday 20<sup>th</sup> July 2017, 1430 hrs.**  
**Intel Theatre, O'Brien Science Building**

**14:30 *Invited Workshop Speaker: Jose M. Yáñez***  
Comparative genomics of disease resistance traits in salmonids

**15:00 James Kijas**  
GWAS reveals the architecture of two maturation traits in Tasmanian Atlantic salmon.

**15:15 Borghild Hillestad**  
Optimum-contribution selection increases genetic gain in Atlantic salmon breeding schemes.

**15:30 Maria Saura**  
Exploiting linkage disequilibrium information in turbot selection programs.

**15:45 Workshop Business Meeting**

**16:30 Karen Neumann**  
Transcriptomic profile of *Salmo salar* skin in response to the Chilean sea louse *Caligus rogercresseyi* using de novo transcriptome assembly.

**16:45 Francesca Bertolini**  
Mining the European Sea Bass (*Dicentrarchus labrax*) genome for the characterization of tandem repeat variability.

**17:00 Nima Rafati**  
Reconstructing the complex structure of the sex determination locus in Atlantic herring using SMRT sequencing.

**17:15 Tom Goldammer**  
Rapid cold shock induces only slight shift in gene expression of rainbow trout (*Oncorhynchus mykiss*).

**17:30 Phillip Dettleff**  
Allele-specific expression analysis related with jaw deformities in Yellowtail kingfish (*Seriola lalandi*) larvae.

**17:45 Close**