**MASTS ASM 2013, Thursday 29th August**

**Workshop: Role of genomics in aquaculture development**

Room: Carnegie A

**Details**: Genomics underlies many of the economic traits for aquaculture production. In recent years there have been a number of key technological advances in genomic analysis that are now being utilised by the aquaculture community. Not only is there generation of large datasets, but the interpretation of these by bioinformatic approaches is central to gaining maximal benefit from this research. This workshop will be an opportunity for those researchers in Scotland to get together to share their recent work. The MASTS Genomics “community project” was the salmon genome, but participation from other areas of aquaculture is encouraged.

**Outcomes**: Expected outcomes from the workshop is an overview of the state of expertise in aquaculture genomics across Scotland. We will also identify gaps in knowledge that need to be addressed and targeted for future research strategies. It will also address how the Aquaculture genomics community in Scotland can maintain interaction both nationally and internationally.

**Agenda**

14.00 Sam Martin, University of Aberdeen

*Welcome and Introduction, setting the scene*

14.15 Alastair Hamilton, Landcatch

*Industry perspective*

14.30 Marlene Lorgen, University of Aberdeen

 *Differential function of paralogous genes in Atlantic salmon*

14.45 Daniel Garcia de la Serrana Castillo, University of St Andrews

 *Hsp90 and IGFBP systems in Atlantic salmon skeletal muscle*

15.00 Armin Strum, University of Stirling

 *The genomics of chemotherapeutant action in salmon lice*

15.15 Deng Hai, University of Aberdeen

*Genome mining of bioactive natural product holomycin from the fish pathogen Yersinia ruckeri.*

15.30 Simon MacKenzie, University of Stirling

 *Transcriptomics and use of model organisms for aquaculture genomics*

15.45 Open discussion: