

AGENDA

Functional Annotation of Salmonids Workshop

13- 14th June, 2016

Geneva Room,

Sheraton Gateway Hotel in Toronto International Airport,

Toronto, Canada

Synopsis:

This workshop aims to initiate and develop scientific thinking regarding the opportunity to undertake a large-scale international collaboration on the functional annotation of salmonids. Such work is now possible given existence of a high quality reference genome and might be supported by scientists, funders, industry and others interested in increasing our understanding of salmonids and using that information to improve aquaculture and fisheries management for over 70 economically, culturally and environmentally important salmonid species worldwide.

The workshop will provide a forum for presentation and discussion of the current trends and technologies in functional annotation, drawing on experiences from the Functional Annotation of Animal Genomes (FAANG) initiative. These developments will provide a framework for discussion regarding the type of scientific research that might be undertaken on an international level, the pre-requisites for this work and next steps that should be taken to further develop and concretize thinking and future work on functional annotation of salmonids.

This workshop is supported by Canada, Chile and Norway, through the International Cooperation for the Sequencing of the Atlantic Salmon Genome (ICSASG) including: Genome BC, Research Council of Norway (RCN), Norwegian Seafood Research Fund (FHF), The Chilean Economic Development Agency – CORFO, InnovaChile .



Monday, June 13th

Solarium Room, Sheraton Gateway Hotel		
19h00- 21h00	Networking Reception	All participants

Tuesday, June 14th

* Coffee served at 10h30 and 15h00 (working break)

Geneva Room, Sheraton Gateway Hotel		
8h30	Breakfast	All participants
9h00	Opening of Meeting <ul style="list-style-type: none"> - Roundtable - Introduction and expectations for the day (review of agenda, meeting goals) 	Rachael Ritchie
9h30	Overview of ICSASG and background to the meeting <ul style="list-style-type: none"> - History of the ICSASG and Scientific outcomes leading to the starting point for new work. <p><i>Session goal: A common understanding regarding starting point for discussions</i></p>	Ben Koop
9h45	Functional Annotation of Animal Genomes <ul style="list-style-type: none"> - History and overview of FAANG - Guiding principles - Operations—Working Groups (how are scientists, funders, industry engaged?) - Recommendations for a Functional Annotation on Salmonids (FAS) Initiative - Balance between working with funded projects on functional annotation vs adhering to the FAANG initiative and contributing to the development of FAANG as part of daily routines. - Funding needs. - Active Q&A <p><i>Session goal: Understanding of necessary elements/core principles for a FAANG/FAS activity. Can FAS fit under FAANG or will the salmon work require new 'structures'/working groups etc?</i></p>	Graham Plastow
10h30	The salmonid genomes as a basis for coordinated Functional annotation activity (15 min) <p>Functional annotation of salmonids – towards a vision for future collaborative research “What's in it for salmonids” “What's in it for industry?” (15 min)</p> <ul style="list-style-type: none"> - Introduction & framing for discussion 	Sigbjørn Lien & Willie Davidson & Scientists

	<ul style="list-style-type: none"> - <i>Scientists roundtable (prepared contributions focusing on own topics to bring into a FAS activity (e.g. nutrition, immunology, environment, health, ...))</i> - <i>Facilitated discussions on subject matter areas: Functions of interest? Species of interest? Applications for knowledge generated? Funding?</i> <p><i>Session Goal: Tabling possible key areas for an international functional annotation of salmonids activity, and let this guide group formations and discussions after lunch.</i></p>	
12h00	Lunch	
12h45	<p><i>Continue session from before lunch if needed...</i></p> <p>Breakout groups on identified key topics to bring forward in an international FAS activity. Towards a proposal for an International Project on the Functional Annotation of Salmon</p> <ul style="list-style-type: none"> - <i>What would be the topic and added benefits of an internationally funded salmonid FA-project.</i> - <i>How would the research be structured/coordinated and undertaken by different countries?</i> - <i>Over what timelines?</i> - <i>What deliverables?</i> - <i>What budget would be required?</i> - <i>How would data be shared?</i> <p><i>Session Goal: identification of subject matter areas for coordinated salmonid FA-research?</i></p>	All participants
14h00	<p>Reporting back from breakout groups</p> <ul style="list-style-type: none"> - <i>10 minutes each group</i> 	All participants
14h45	<p>Facilitated discussion on next steps</p> <ul style="list-style-type: none"> - <i>Identified core topics to bring further</i> - <i>Establishment of Core Scientific Group and subgroups on topics</i> - <i>Associate members</i> - <i>Governance structure</i> - <i>How to engage funders?</i> - <i>Timelines</i> - <i>Next steps and meeting</i> 	Steinar Bergseth & Rachael Ritchie
15h45	Meeting Close	

Participants

Name	Role	Affiliation	Country
Barbara Nowak	Researcher	University of Tasmania	Australia
Ben F Koop	Researcher	University of Victoria	Canada
Rachael Ritchie	Funder	Genome British Columbia	Canada
Willie Davidson	Researcher	Simon Fraser University	Canada
Alfredo Tello	Funder	Instituto Tecnológico del Salmón	Chile
Patricia Iturra	Researcher	Universidad de Chile	Chile
Rodrigo Vidal	Researcher	Universidad de Santiago de Chile	Chile
Graham Plastow	FAANG	University of Alberta	FAANG
Craig Primmer	Researcher	University of Turku	Finland
Yann Guiguen	Researcher	INRA	France
Kristinn Ólafsson	Researcher	Matis	Iceland
Jon Olav Vik	Researcher	University of Life Sciences	Norway
Sigbjørn Lien	Researcher	University of Life Sciences	Norway
Steinar Bergseth	Funder	The Research Council of Norway	Norway
Daniel MacQueen	Researcher	University of Aberdeen	Scotland
Philip McGinnity	Researcher	University College Cork	Ireland
Ross Huston	Researcher	Roslin Institute	Scotland
Sam Martin	Researcher	University of Aberdeen	Scotland
Caird Rexroad	Funder	USDA	USA
Kerry Naish	Researcher	University of Washington	USA