

Workshop on Genetic research in Atlantic cod

– Current status and future aspects -

Date: 10-11th of May 2005

Tuesday, May 10th - 09:00 – 17:00

- 08:45** **Árni M. Mathiesen Minister of Fisheries – Opening remarks**
- 09:00 Sjófn Sigurgísladóttir General Director, IFL – [Welcoming participants and introduction of the agenda](#)
- 09:10 Jóhann Sigurjónsson Director, Institute of Marine Research, Iceland – [Research activities and collaboration](#)
- 09:20 *Canadian invitees:*
Laura L. Brown, Senior Research Officer, Institute of Marine Biosciences, NRC - [Cod research activities in Canada](#)
- 09:40 Sharen Bowman, Genome Atlantic, Canada – [The Genome Canada Cod Genomics and Broodstock Development Proposal: an Overview](#)
- 10:00** **Coffee break**
- 10:30 Stewart C. Johnson, Senior Research Officer, Institute of Marine Biosciences, NRC, Canada – [Genomic approaches to cod disease studies: susceptibility to nodavirus](#)
- 10:50 *Norwegian invitees:*
Frank Nilsen, IMR, Norway - [Current status and development of genomic resources for Atlantic cod at IMR Norway](#)
- 11:10 Kjersti Fjalestad, FF, Norway - [Selective breeding of cod - possible use of genetic markers](#)
- 11:30 Stein Tore Solem, UiTø, Norway - [Immune genes and expression in cod](#)
- 12:00** **Lunch**
- 13:00 Pål Olsvik, NIFES, Norway - [Nutri-toxicogenomic studies in Atlantic cod - Current and planned research at NIFES](#)
- 13:20 Geir Lasse Taranger, IMR, Norway - [Use of functional genomics to study reproduction in Atlantic cod](#)
- 13:40 Anna Kristín Daniélsdóttir, group leader population genetics, IMR, Iceland - [Population genetics of cod](#)
- 14:00** **Coffee break**
- 14:15 Vigfús Jóhannsson, managing director Stofnfiskur - [An Icelandic family selection programme for cod-farming](#)
- 14:30 Einar Árnason, Professor University of Iceland – [Gene genealogies and estimation of historical and contemporary population sizes: An example from Atlantic cod, a high fecundity organism.](#)
- 14:45 Þorleifur Ágústsson, Project Manager IFL – [Importance of linking genotype and phenotype](#)
- 15:00** **General discussions**
- 16:00** **Trip to the Blue Lagoon**
- 20:00** **Dinner at The Pearl**

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09:00-09:15 Selection of participants in workgroups

Groups:

- 1) Genetic research on cod conducted in each country, and by whom?
 - a. What are the priorities from the industry point of view?
- 2) an example of one or two specific research programs we can collaborate in?
 - a. These may include sequencing the entire genome
 - b. Are existing programs enough?
- 3) Which information, data, resources and material can we share?
 - a. Which tools are available? ESTs, libraries, microarrays, BACs, maps, families?
- 4) How can we finance these collaborative programs?
 - a. Which funding resources are available?
- 5) The structure of this international collaborative venture, i.e., who is leading it and who is responsible for keeping us on track?

09:15-11:00 Workshop

The participants will be divided into 3 groups, and each group will answer all of the questions above.

11:00 Visit to deCode Genetics Inc. Reykjavík

12:00 Visit to Prokaria Inc. Reykjavík – light lunch and Jakob Kristjánsson General Director of Prokaria Inc will give a short presentation of the company.

14:00 Summary of workshop (Laura L. Brown)

16:00 Concluding remarks

- What are we going to do together?
- Which are the next steps?
- Action plan – what to do, by whom and who is responsible?
- Communications plans
 - One year?
 - Three years?
 - Five years?

17:00 End of workshop