Nordic Alliance for Clinical Genomics

INVITATION

NACG 9th workshop
Reykjavik 11.-12. May 2020

About NACG

The Nordic Alliance for Clinical Genomics is an independent, non-governmental, not-for-profit, Nordic association open for organizational and individual members.

Our overall mission is to work together and learn from each other to lift performance standards. We aim at responsible sharing of trustworthy data for improved diagnosis and treatment, and as a resource for research.

Our goals are to

- Facilitate the **responsible sharing** of genomic data, bioinformatics tools, sequencing methods and best practices for interpretation of genomic data.
- **Enhance quality** of genomic data and processes and explore methodologies to provide assurance.
- Understand **legal barriers** to the implementation of personalised medicine and to engage with key stakeholders that influence these barriers
- Develop **demonstration projects** that challenge perceived legal barriers that limit responsible and ethical sharing of genomic and health data.
- **Build bridges** between research and clinical communities, technologies and practices to foster innovation

To learn more about the Nordic Alliance for Clinical Genomics please visit our website at https://nordicclinicalgenomics.org/ or contact us at post@nordicclinicalgenomics.org.

Workshop outline

<table>
<tr><th colspan="2">Monday 11 May</th><th colspan="2">Tuesday 12 May</th></tr>
<tr><td colspan="2" rowspan="2">9:00 NACG Steering Committee meeting</td><td>9:00 Nordic consent framework and toolkit</td><td>9:00 Emerging technologies</td></tr>
<tr><td rowspan="2">11:30 Preparing for IVDR

(including lunch break)</td><td rowspan="2">11:30 Collaborative software development

(including lunch break)</td></tr>
<tr><td colspan="2">12:00 Lunch</td></tr>
<tr><td colspan="2">13:00 Welcome & keynote</td><td colspan="2" rowspan="2">13:30 Plenary: Workshop closing

14:00 Bus departure to airport</td></tr>
<tr><td>14:00 Cancer panel benchmarking</td><td>14:00 Variant interpretation and data sharing</td></tr>
<tr><td colspan="2">17:00 End of workshop day 1</td><td colspan="2" rowspan="2"></td></tr>
<tr><td colspan="2">19:30 Workshop dinner</td></tr>
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Workshop agenda

Monday May 11, 2020

12:00	Registration and lunch
13:00	**Welcome and opening remarks** Dag E. Undlien, OUS Department of Medical Genetics, NACG chair
13:30	**Keynote speech** Long read sequencing of 1,817 Icelanders provides insight into the role of structural variants in human disease. Bjarni V. Halldórsson PhD, deCODE Genetics

	Parallel A	Parallel B
14:00	**Cancer panel benchmarking** Valtteri Wirta, Facility Director, SciLifeLab & Oleg Agafonov, Researcher, DNV GL	**Variant interpretation and data sharing** Dag E. Undlien, Head of Department of Medical Genetics, OUS & Stephen McAdam, Digital Health Director, DNV GL
17:00	End of workshop day 1	
19:30	NACG workshop dinner at Icelandair Hotel Reykjavik Natura	

Tuesday May 12, 2020

	Parallel A	Parallel B
9:00	**Nordic consent framework and toolkit** Bobbie Ray-Sannerud, Programme Director Precision Medicine, DNV GL	**Emerging technologies** Frederik Otzen Bagger, Head of Bioinformatics, Dept. Genomic Medicine Rigshospitalet.
11:30	**Preparing for IVDR** Cathrine Høgseth Nordhus, Section Manager Quality, Department of Medical Genetics, OUS (including lunch break)	**Collaborative software development** Tony Håndstad, Bioinformatician, Department of Medical Genetics, OUS (including lunch break)
13:30	Plenary: workshop closing	
14:00	Bus departure to airport	

Workshop sessions details

Topic	Description	Contact person
Cancer panel benchmarking	The session will provide an introduction to somatic workflows in use in the Nordics and present a simple variant identification benchmark exercise using two reference samples with ddPCR verified variants.	Valtteri Wirta (valtteri.wirta@scilifelab.se) & Oleg Agafonov (oleg.agafonov@dnvgl.com)
Collaborative software development	Practical NACG collaboration in software development; - How can we collaborate - Potential projects & prioritization of project(s) - Planning of contributions and next steps	Tony Håndstad (tony.handstad@medisin.uio.no)
Nordic consent framework and toolkit	Following up from the previous workshop and work done in the BigMed project, NACG is kicking off a project to develop a Nordic clinical consent framework & toolkit which could aid in sharing of practical experiences and accelerate cross-Nordic data sharing. The workshop will be used to calibrate needs and gather input to the project deliverables, leading to production of prototype to be reviewed at the next workshop.	Bobbie Nicole Ray-Sannerud (Bobbie.Nicole.Ray-Sannerud@dnvgl.com)
Emerging Technologies	A number of new sequencing techniques, like variations of single cell sequencing and long read sequencing, are currently in use in research. We will explore the clinical potential for the most interesting techniques and their impacts on workflows (lab and bioinformatics), focusing on experiences, feasibility and future clinical perspective.	Frederik Otzen Bagger (frederik.otzen.bagger@regionh.dk)
Preparing for IVDR	All actors in the field of medical genetics will have to comply with the new European Medical Devices (MDR) and In-Vitro Diagnostics Medical Device Regulation (IVDR) by May 2020 and May 2022 respectively. In this session Nordic laboratories will share the status of their efforts to secure compliance to the new regulations. The goal of the session is to compare the different laboratories' approaches to these regulations and to identify areas where the NACG members can work together to address challenges. Topics to be addressed are formats for collaboration, use of open source code, factory developed test arguments and market surveillance.	Cathrine Høgseth Nordhus (cahnor@ous-hf.no)
Variant interpretation and data sharing	NACG has had a long focus on variant interpretation including an earlier exercise to benchmark between according to ACMG criteria. If there is an interest NACG could explore in more depth as to how ACMG criteria are used including running a new benchmarking exercise.	McAdam, Stephen (stephen.mcadam@dnvgl.com) & Dag Erik Undlien (d.e.undlien@medisin.uio.no)

Practical information

Registration

Please register for the NACG workshops here: https://forms.gle/XCRXPMcyevrx3Cnw9

Venue

The workshop will take place at the University Campus in Reykjavik, details to come.

Accommodation

Icelandair Hotel Reykjavik Natura offers single guest rooms at 14.900 ISK per night and double guest rooms 17.900 ISK per night, both including breakfast. The hotel is close to the domestic airport in Reykjavik and walking distance from the venue, and participants can book and pay for rooms directly using this link: https://be.synxis.com/?Hotel=59630&Chain=15503&configCode=icelandair&level=hotel&start=availresults&adult=1&group=2005DETNOR&arrive=2020-05-10&depart=2020-05-13&locale=en-US.

The hotel has reserved up to 60 rooms that will be bookable until 12th April. Cancellation deadline for the rooms is 7 days before arrival.

Workshop dinner

The workshop dinner will be held at Icelandair Hotel Reykjavik Natura Monday evening, where a set dinner will be served. Please register participation and any dietary requirements in the registration form.

Transport

Immediately following the closing of the workshop, Tuesday 14:00, bus transport will be organised from the workshop venue to the airport.

Resources

Workshop reports from previous events, NACG papers and governing documents are available at https://nordicclinicalgenomics.org/resources

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