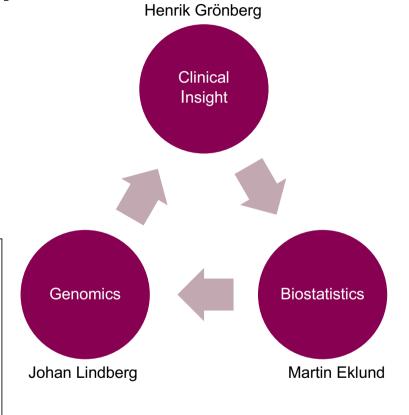


Who are we?



Bioinformaticians @ MEB

Rebecka Bergström Venkatesh Chellappa Karthick Maniram Sarath Murugan Markus Mayrhofer

Lab-staff @ SciLlfe

Simon Sundling Anastassija Andrijako

Academic postions

Konstantin Carlberg Bram De Laere

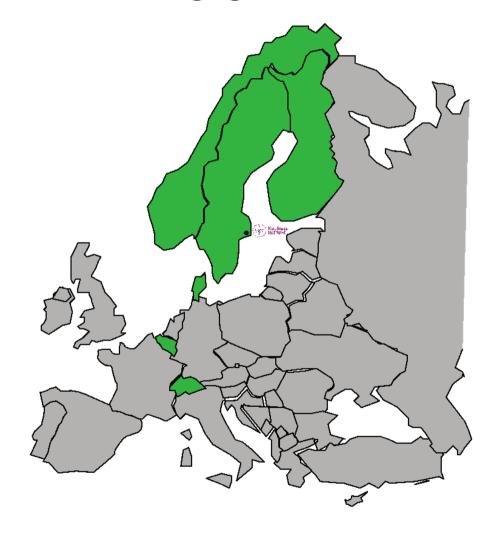
ProBio statisticians

Alessio Crippa Andrea Discacciati

Others

Prospective clinical trials using genomics

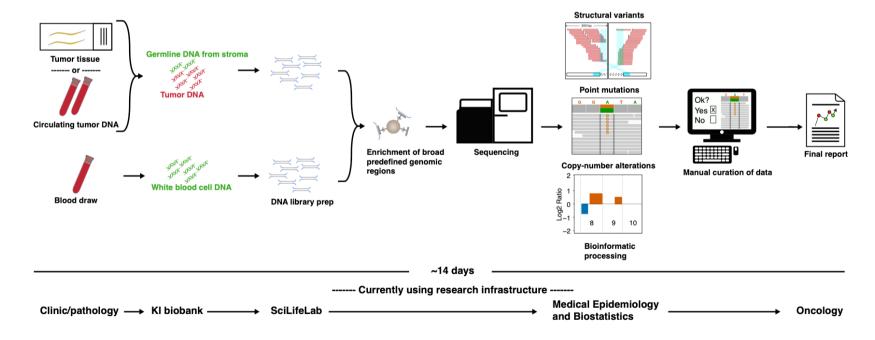
- Established infrastructure to enable the trials
- ~50 sites in 6 European countries ship biomaterial to KI



Genomics infrastructure

Experience

- > 4500 cases profiled using a validated research infrastructure/process
 - Research projects (DNA and RNA analysis)
 - Prospective clinical trials (DNA analysis)
 - Work towards accreditation and clinical implementation



Modified version of an existing course

- https://pmbio.org/course/
- Course content under MIT license and Creative Commons.



Malachi Griffith, PhD
Assistant Professor of Medicine
Assistant Professor of Genetics
Assistant Director. MGI

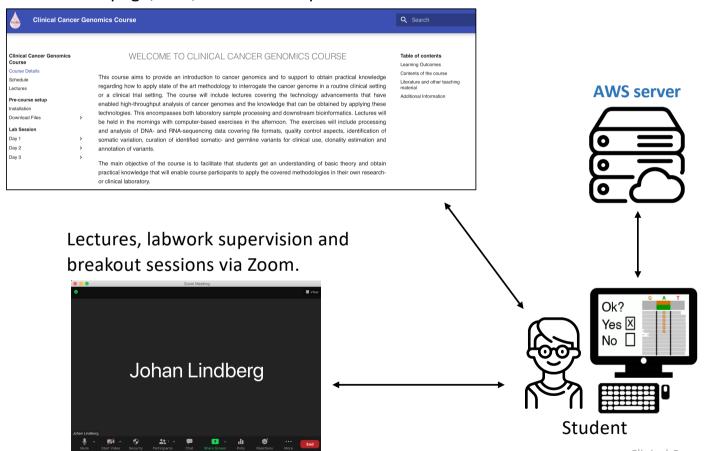


Obi Griffith, PhD
Assistant Professor of Medicine
Assistant Professor of Genetics
Assistant Director. MGI

McDonnell Genome Institute, Washington University School of Medicine

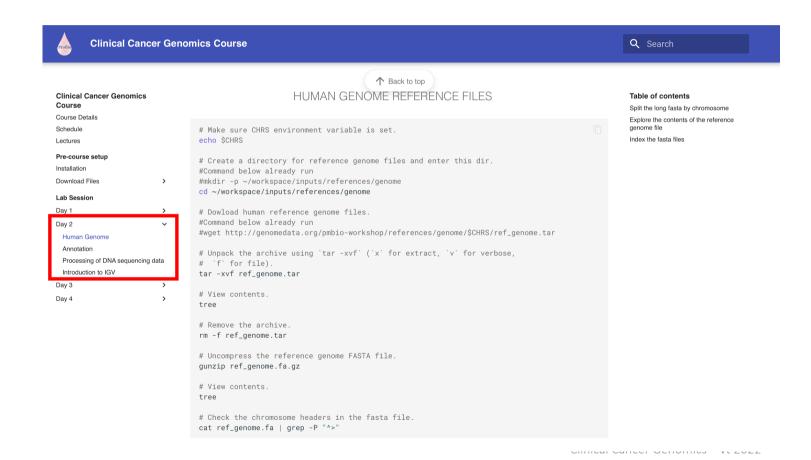
Online set-up

Course webpage, info, lectures and practical sessions.



Clinical Cancer Genomics – vt 2022

Hands-on exercises



Schedule

		Mon	Tues	Wed	Thur	Fri
	Lecture 1	Lectures about the cancer genome and how to interrogate it.		Bioinformatics pipelines and high-throughput computing environments		How to curate somatic- and germline data in a clinical trial setting
	Lecture 2			QC and somatic and germline (small) mutation variant callers.	Structural variantion	Clinical trials
AM	Lecture 3		Lab introduction	Lab introduction		Annotating, interpreting and reporting somaticand germline variation.
PM	Labwork		Files, tools and running a basic bioinformatic pipeline.	Calling and QC of somatic/germline variants	Analysis of copy number data, structural rearrangements and	Investigating databases and working with data interpretation. Finishing off any remaining labwork from previous days

- Examination show for a course instructor each day that you have completed and understood the labwork.
 - During the exercises you get questions ...
- This is our first time have patience!
 - Any ideas/things you want to discuss for your own projects let us know during the practical sessions, we can have a project brainstorm.

Questions?