

Who are we?

Bioinformaticians @ MEB

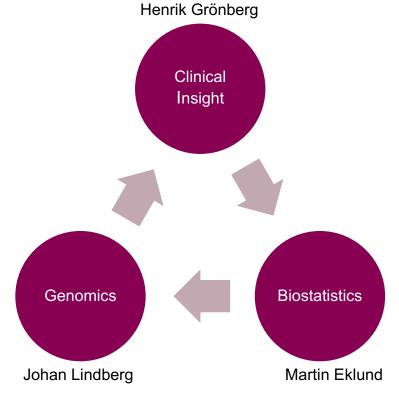
Venkatesh Chellappa Sarath Murugan Karthick Maniram Rebecka Bergstrom Markus Mayrhofer Nawal Hamidi Preeti Lakshman Kumar Anupriya Sadhasivam

Lab-staff @ SciLlfe

Mahsan Banijamali Anastassija Kotsalaynen

Academic postions

Konstantin Carlberg Sinja Taavitsainen



ProBio statisticians

Alessio Crippa Andrea Discacciati

Others

Cancer genomics team at KI











PSFF program (Pre-Screening För Fas-I) ctDNA for patients referred to the Phase-I Unit

~50 sites in 6 European countries

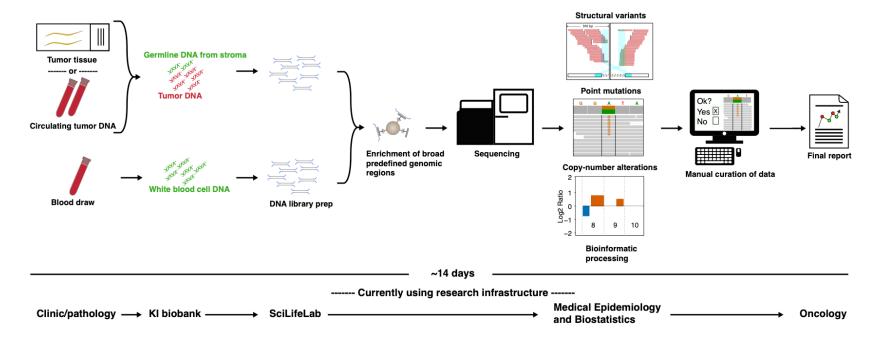


Karolinska Institutet >5000 cases analysed

Genomics infrastructure

Experience

- > 5000 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

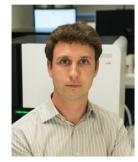


Modified version of an existing course

- 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
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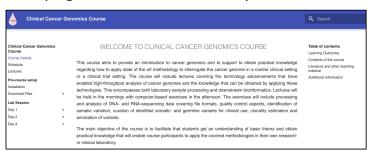
McDonnell Genome Institute, Washington University School of Medicine

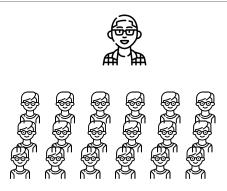
Set-up

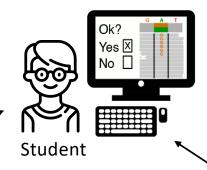
Lectures before lunch



Course webpage, info, lectures and practical sessions.









Course web page

http://clinical-cancer-genomics.s3-website-us-east-1.amazonaws.com

Schedule

		Mon	lues	VVed	Thur	Fri
	Lecture 1	ecture 1 Lectures about the cancer genome and how to interrogate it		Small variants (mutations)	Copy number alterations	Continue labwork
	Lecture 2		Guest lecture, Clinical Genomics	RNA sequencing		How to curate somatic- and germline variation for clinical use Joint curation of variants
AM	Lecture 3		Lab introduction	Lab introduction		Curation demonstration, real samples Bioinformatics pipelines & HTC computing environments
PM				Calling and QC of somatic/germline variants RNAsequencing analysis	Analysis of structural rearrangements	Continue leftover labwork Genomic Alteration Interpretation Depending on time: TCGA/ICGC integrated genomic analysis.

Set-up

- 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 with the course IRL 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?

Menti!