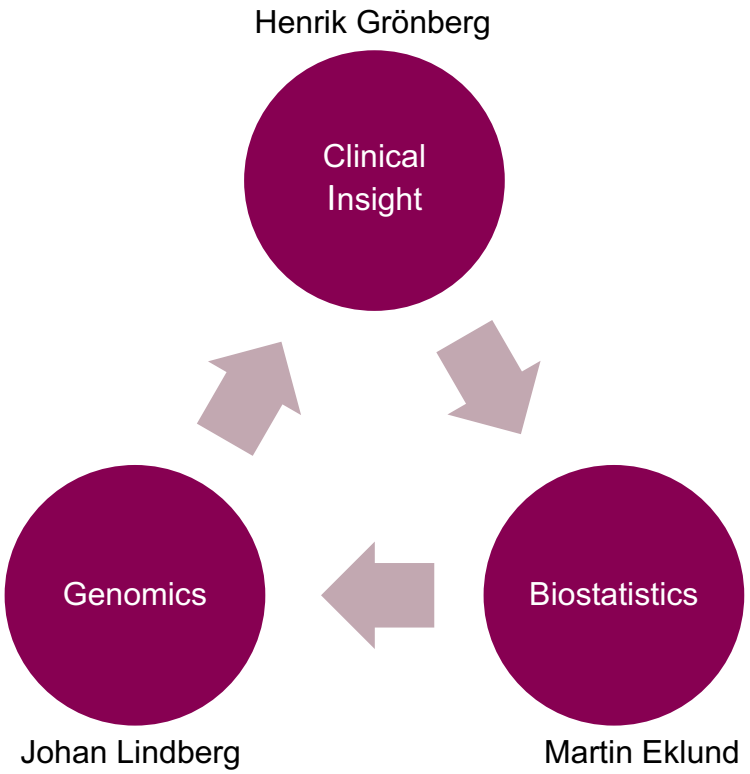
Welcome to Clinical Cancer Genomics, vt 2025

Who are we?



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

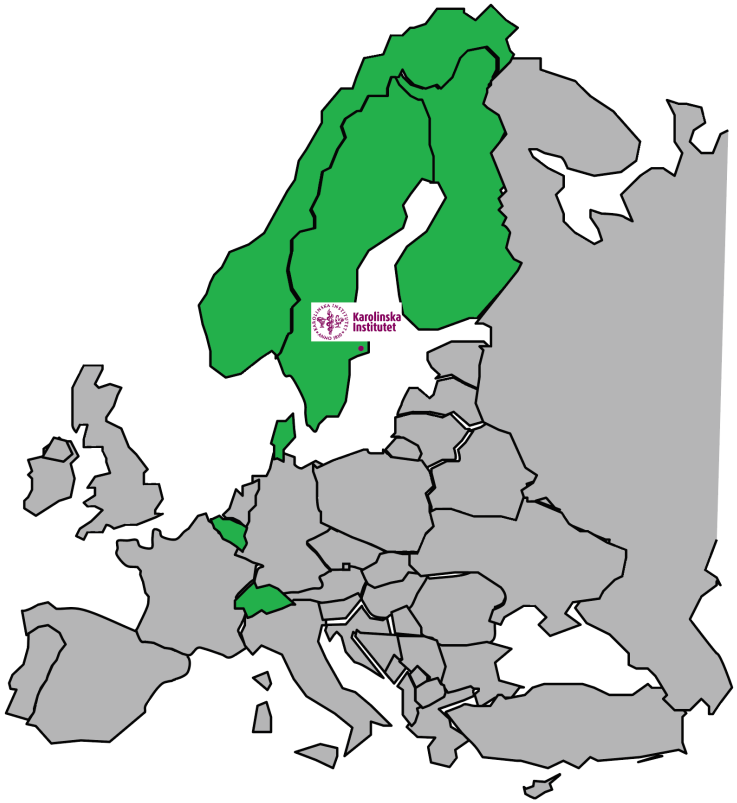
Engineers
Konstantin Carlberg
Anastassija Kotsalaynen

Postdoc
Sinja Taavitsainen

ProBio statisticians
Alessio Crippa
Andrea Discacciati

Others … .

Cancer genomics team at KI



ALASCCA
Adjuvant ASA vid kolorektalcancer

ProBio

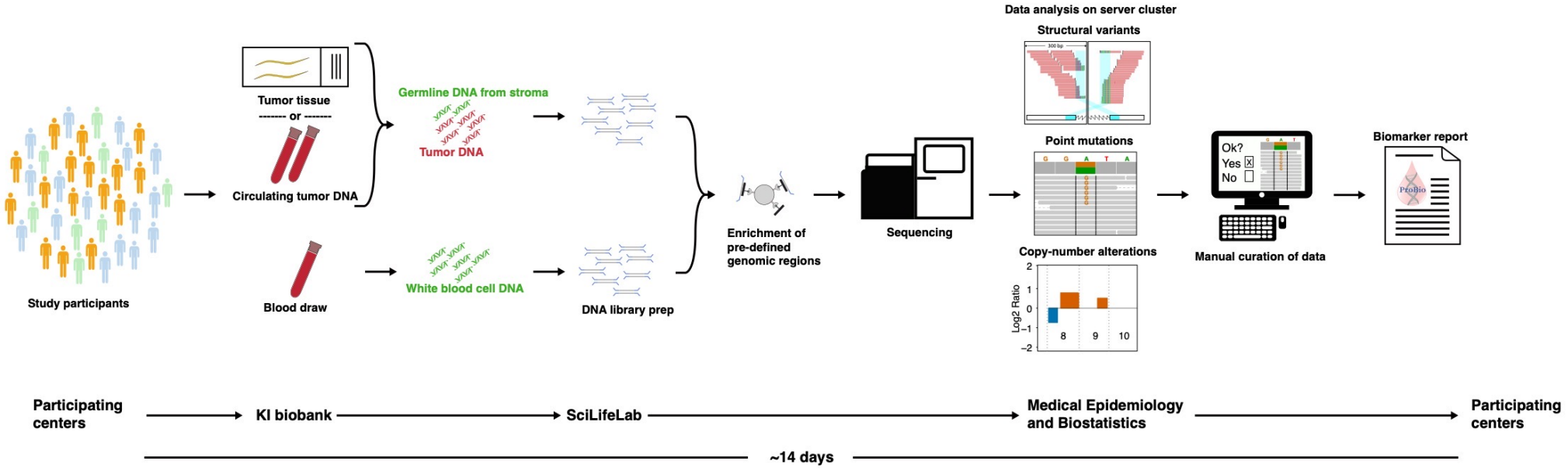
iPCM

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

>50 sites in 6 European countries

Karolinska Institutet
>6500 cases analysed

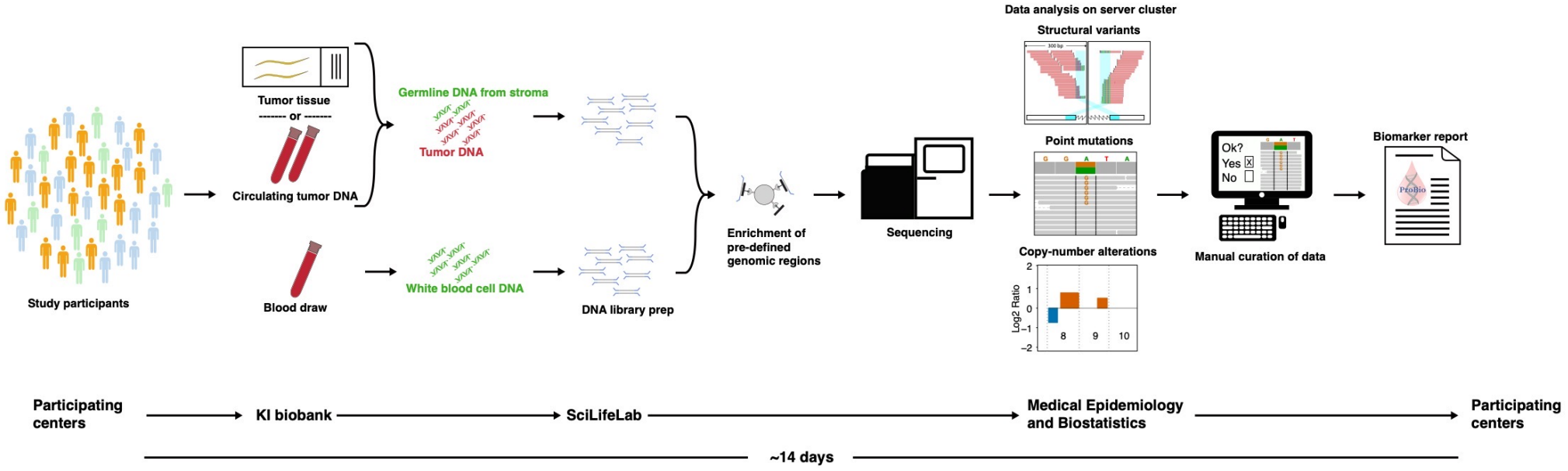
Genomics infrastructure



The iPCM study - sponsored and run through the PCM program

Aim

- To apply an existing research infrastructure to perform broad genomic profiling of all newly diagnosed advanced solid tumors (>2000) as a research project during one year in Stockholm
- To transfer all individual components of the research infrastructure to long-term PRAGMATIC solutions to facilitate routine implementation

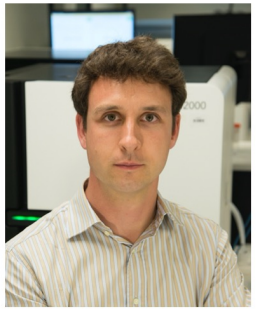


Menti - Course overview

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

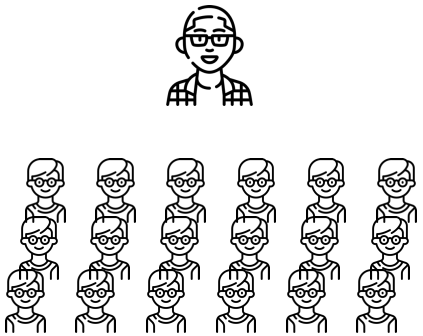


Obi Griffith, PhD
Assistant Professor of Medicine
Assistant Professor of Genetics
Assistant Director, MGI

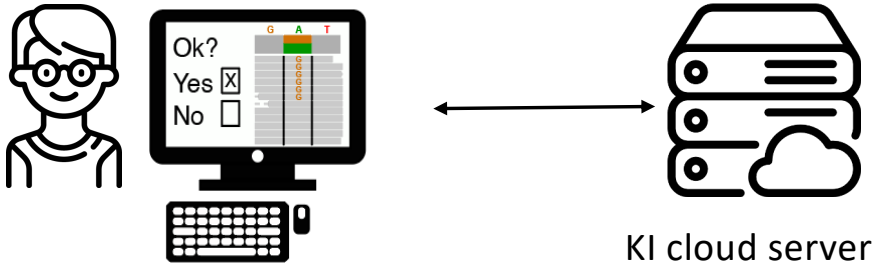
McDonnell Genome Institute, Washington University School of Medicine

Set-up

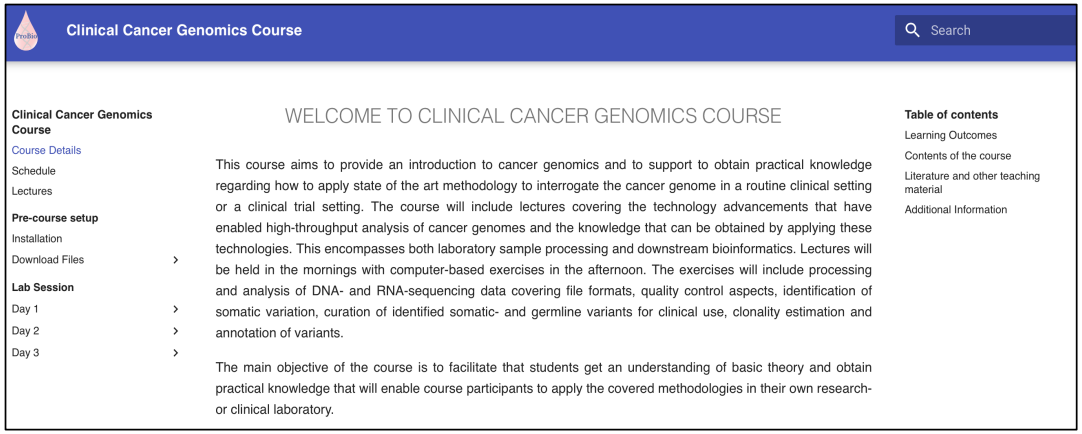
Lectures



Practical sessions



https://clinseq.github.io/

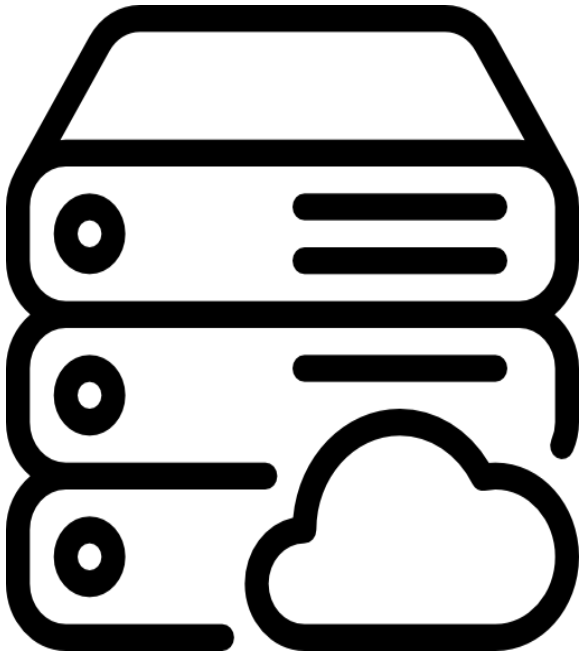


Course webpage, info, lectures and practical sessions.

KI Cloud Server – specs and etiquette

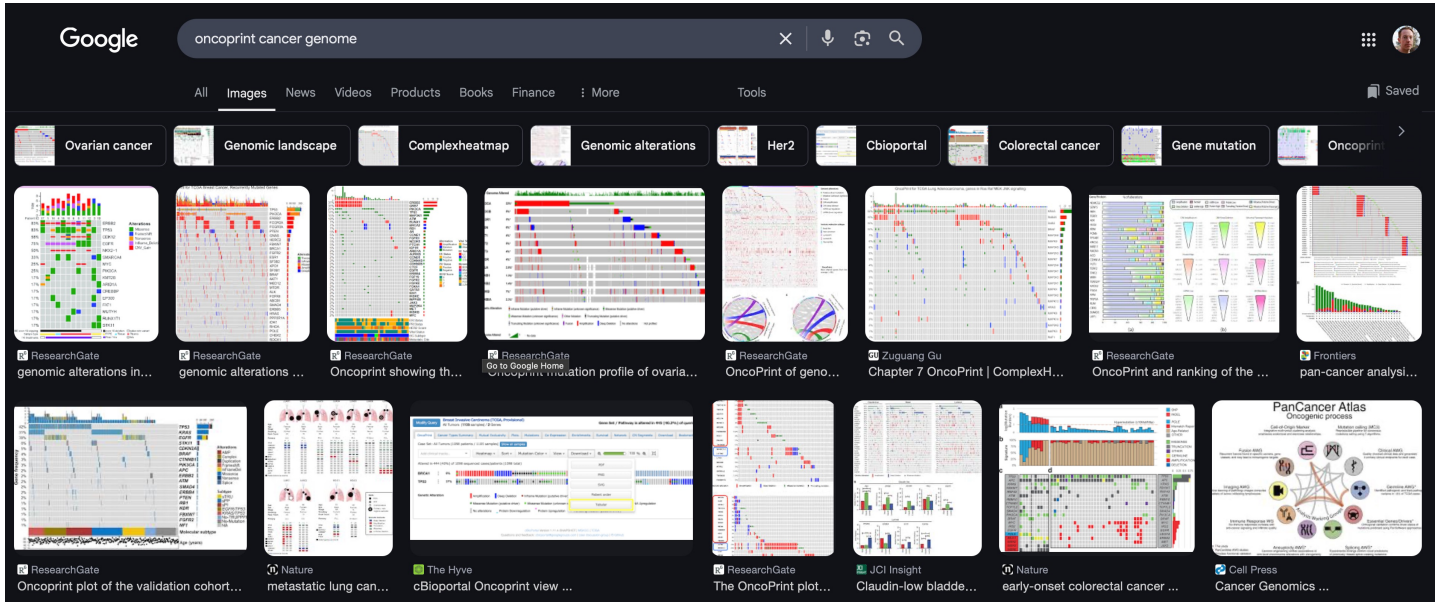
- A big VM - Intel Xeon Gold 5220R – 96 CPUs
- 512G RAM and 500GB SSD
- 4TB /nfs share (working area)

- Do not use mv or rm commands on any directory within /nfs/course/inputs/ folder.
- Each of you will have your own working directory within /nfs/course/students/, please keep all your files within that directory



Completion of the course

- Show for a course instructor each day that you have completed and understood the labwork.
  - During the exercises you get questions …
- Examination task: During the two last days you will be given date from a set of 5-6 prostate cancer genomes. Each student will analyze the data and identify the main drivers/genomic phenotype of each cancer genome. Write a short summary per case and provide plots. We also want you to plot an oncoprint from the five cancer genomes.



Questions?