

Long-read sequence analysis

Marco Kreuzer Geert van Geest

Teachers

- Gregoire Rossier: Training manager at SIB
- Geert van Geest: Trainer at SIB/bioinformatician at IBU Bern
- Guest lectures:
 - Alban Ramette: applications with ONT sequencing
 - David Stucki: representing PacBio

General learning outcomes

- Describe the basics behind PacBio SMRT sequencing and Oxford Nanopore Technology sequencing
- Use the command line to perform quality control and read alignment of long-read sequencing data
- Develop and execute a bioinformatics pipeline to perform an alignment-based analysis
- Answer biological questions based on the analysis resulting from the pipeline

Learning experiences

- Lectures
- Quiz questions
- Exercises
- Group project

Question 1-3

Communication

Course website:

https://sib-swiss.github.io/NGS-longreads-training/

Google docs

Introduction round

- Introduce yourself:
 - Where do you work
 - Why are you joining this course