

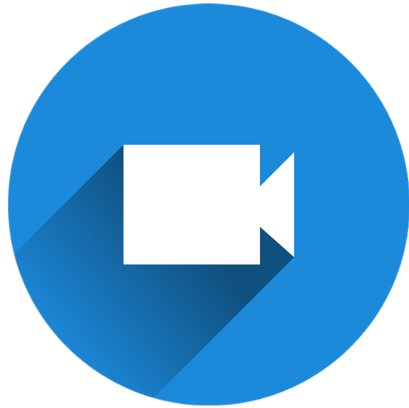
Swiss Institute of  
Bioinformatics

# Long-read sequence analysis

Marco Kreuzer  
Geert van Geest

# Course etiquette

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Video on  
when  
possible



Mute when  
not speaking

# Teachers

- **Valeria di Cola:** Training manager at SIB
- **Marco Kreuzer:** bioinformatician at IBU Bern
- **Geert van Geest:** Trainer at SIB/bioinformatician at IBU Bern
- **Guest lecture:** Alban Ramette

# 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

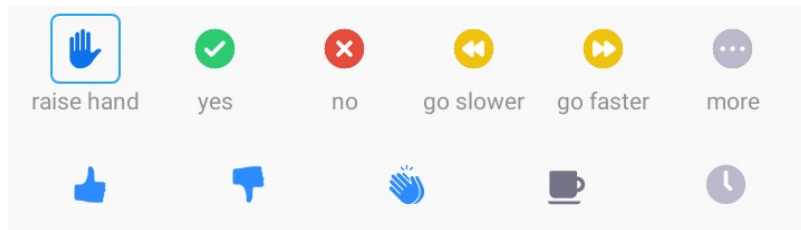
- Course website:

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

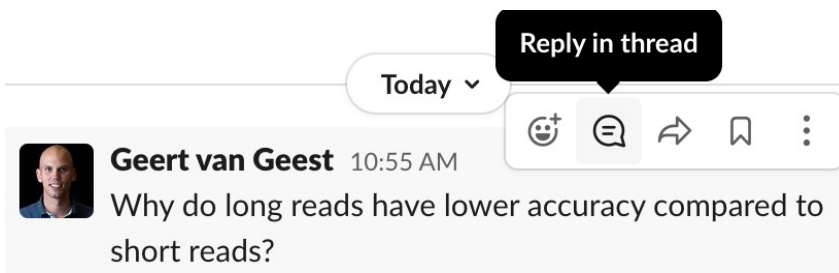
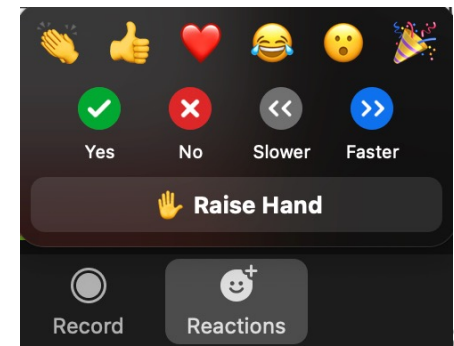
- Slack
- Google docs

# Asking questions

- During lectures: zoom functionality
- Personal interest questions: [#background](#)
- During exercises: [#q-and-a](#) on slack



OR





# Get to know each other

- Write in the google doc (5 minutes):
  - Three keywords about yourself
  - Why you are joining this course, and what you want to learn
- You will discuss them in breakout rooms afterwards (15 minutes)
  - Introduce yourself based on what you've written in the doc