# Long-read sequence analysis

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### Learning outcomes

- Understand 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
- Be able to do differential isoform expression analysis or a repeat expansion analysis based on long-read sequencing data

# Learning experiences

- Lectures
- Quiz questions
- Exercises
- Miniproject

#### Communication

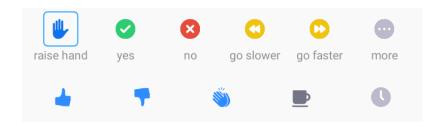
Course website:

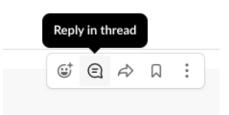
https://sib-swiss.github.io/NGS-longreads-training/

- Slack
- Google docs

## Asking questions

- During lectures: zoom functionality
- Personal interest questions: #background
- During exercises:
  - #peer\_q\_and\_a on slack
  - if really stuck: no button in zoom
  - if finished: yes button in zoom





#### 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