

NGS – variant analysis

Geert van Geest
Interfaculty Bioinformatics Unit, UniBe
Training group, SIB

Teachers

- **Patricia Palagi:** Team leader training at SIB
- **Wandrille Duchemin:** trainer at SIB/bioinformatician at sciCORE Basel
- **Irene Keller:** bioinformatician at DBMR Bern
- **Geert van Geest:** trainer at SIB/bioinformatician at IBU Bern

Learning outcomes

- Understand important **aspects** of **NGS** and read **alignment** for variant analysis
- **Perform** a read **alignment** ready for variant analysis
- **Perform variant calling** according to **GATK** best practices
- **Perform** a variant **annotation**

Learning experiences

- Lectures
- Quiz questions
- Exercises

Communication

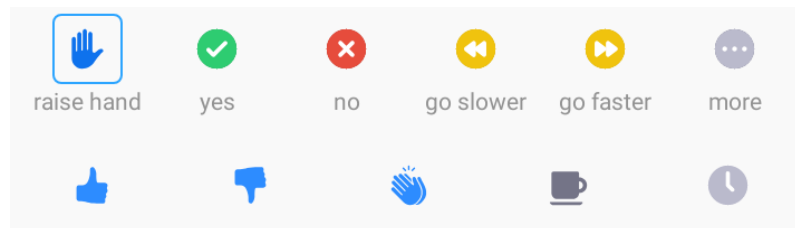
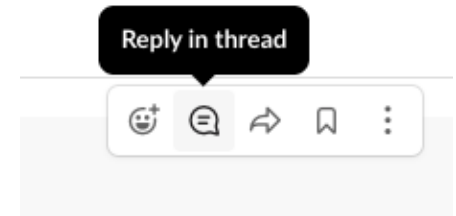
- Course website:

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

- Slack
- Google docs

Asking questions

- During lectures: zoom functionality
- Personal interest questions: [#background](#)
- During exercises:
 - [#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