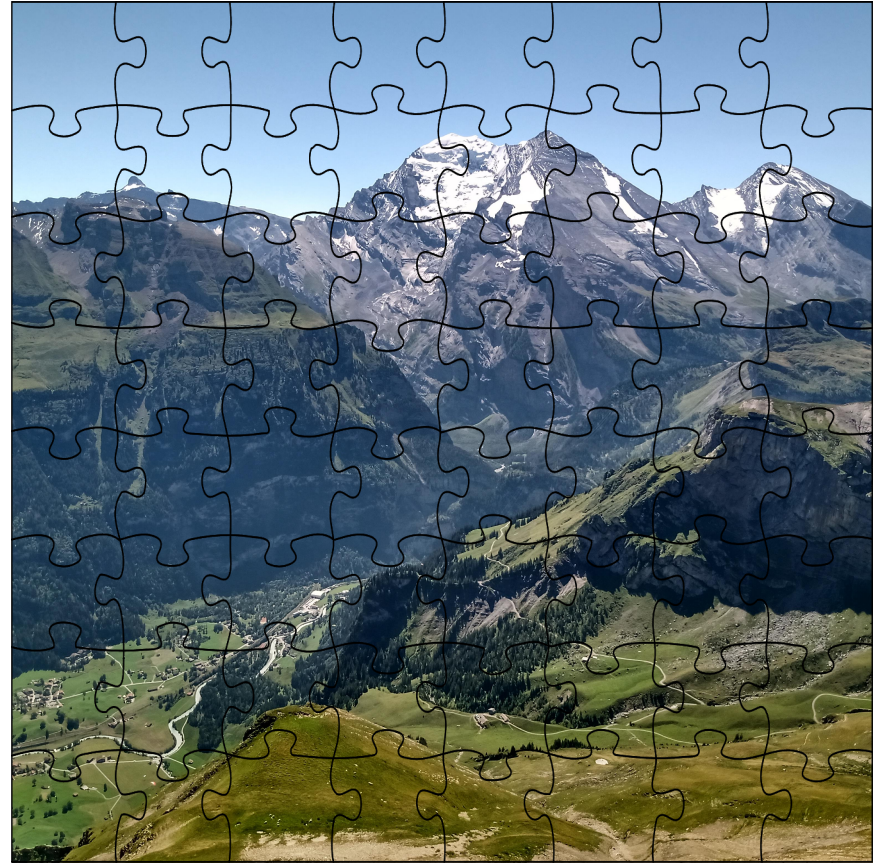
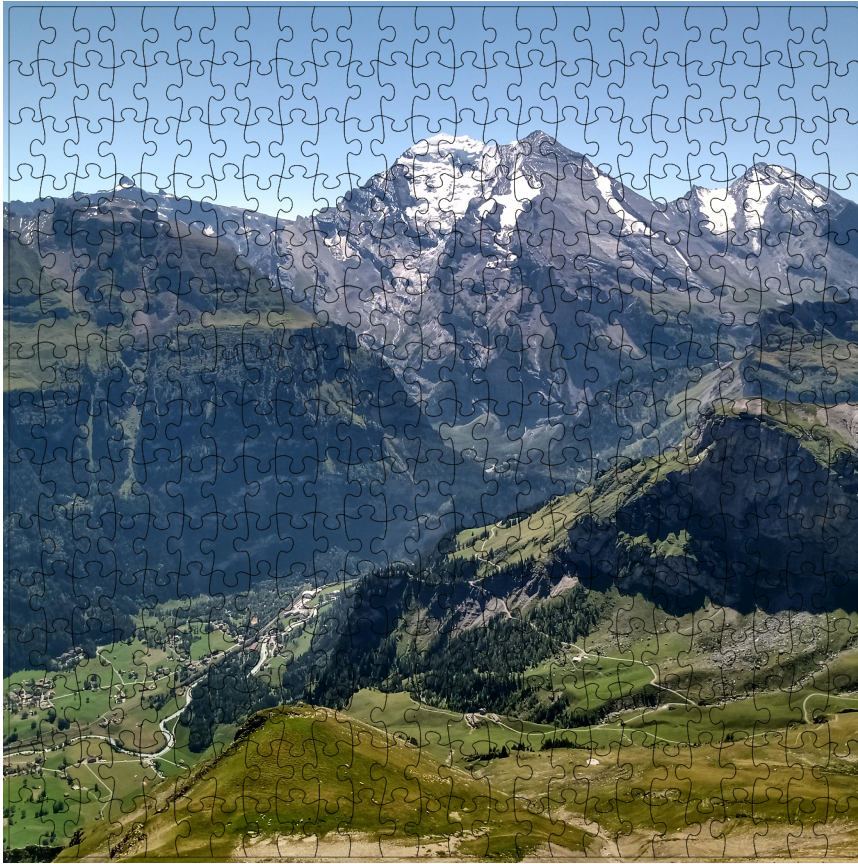


# Long-read sequence analysis

Applications

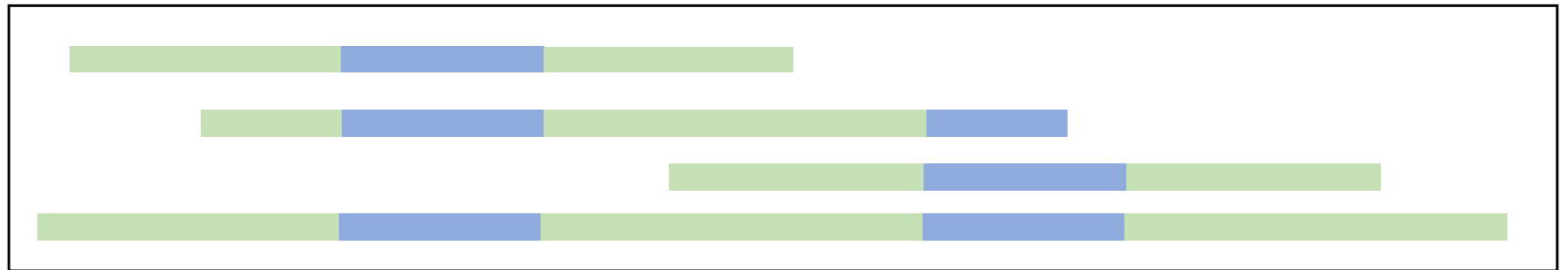
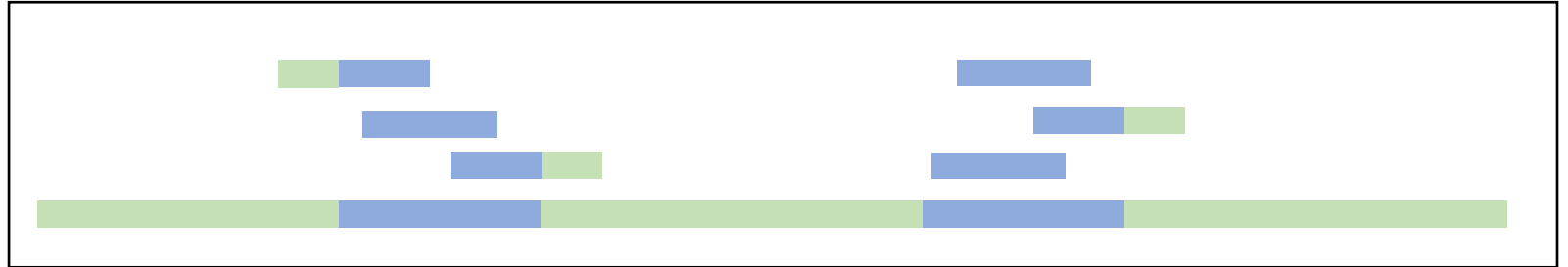
# Why long reads?



# Applications

- (Genome/transcriptome) assembly
- Repeats/structural variation
- Haplotyping
- Splice variation

# Mapping and assembly

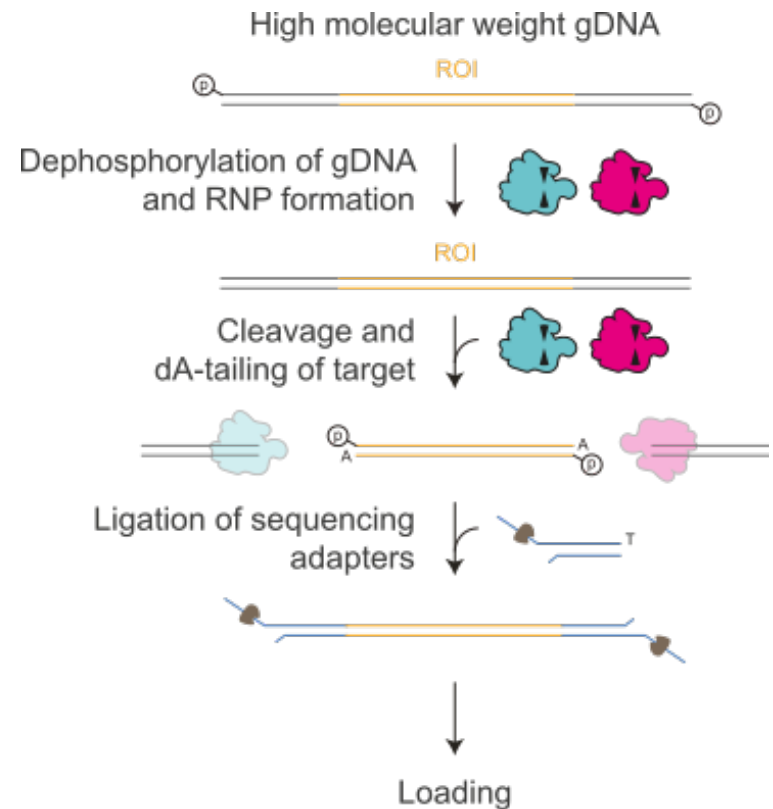


# Presentations

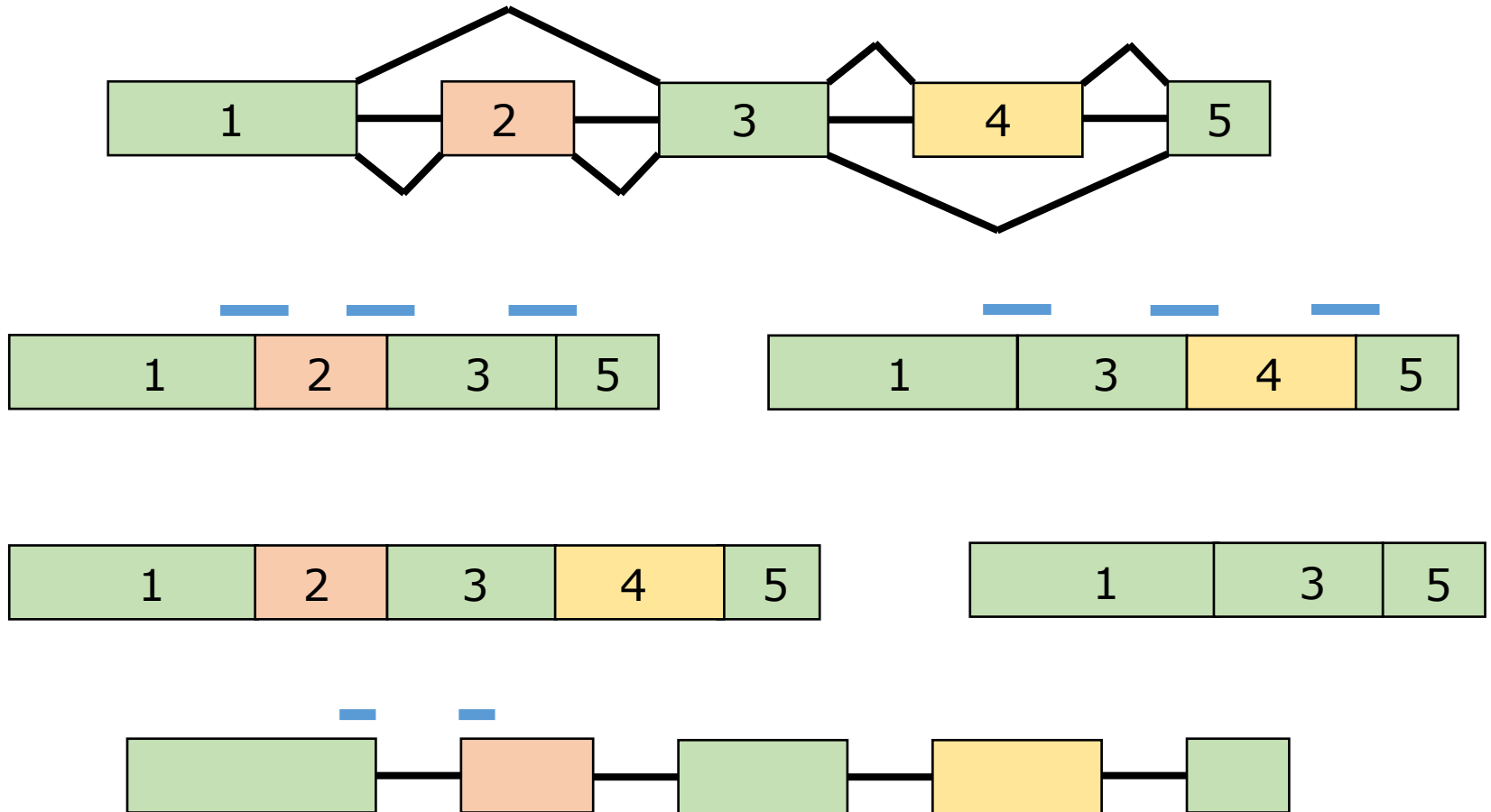
- 15:00: Giancarlo Russo - Dissection of the transcriptional landscape of the NRXN gene family using long reads.
- 15:30: Marco Kreuzer - Long-read sequencing in metagenomics
- 16:00: Heidi Tschanz-Lischer - Whole genome assembly using long read sequences

# New possibilities

- Cas9 based targeting (both PacBio & ONT)
- Adaptive sampling (ONT)
- Direct RNA (ONT)



# Isoform variation - project 1



# Repeat expansion - project 2

