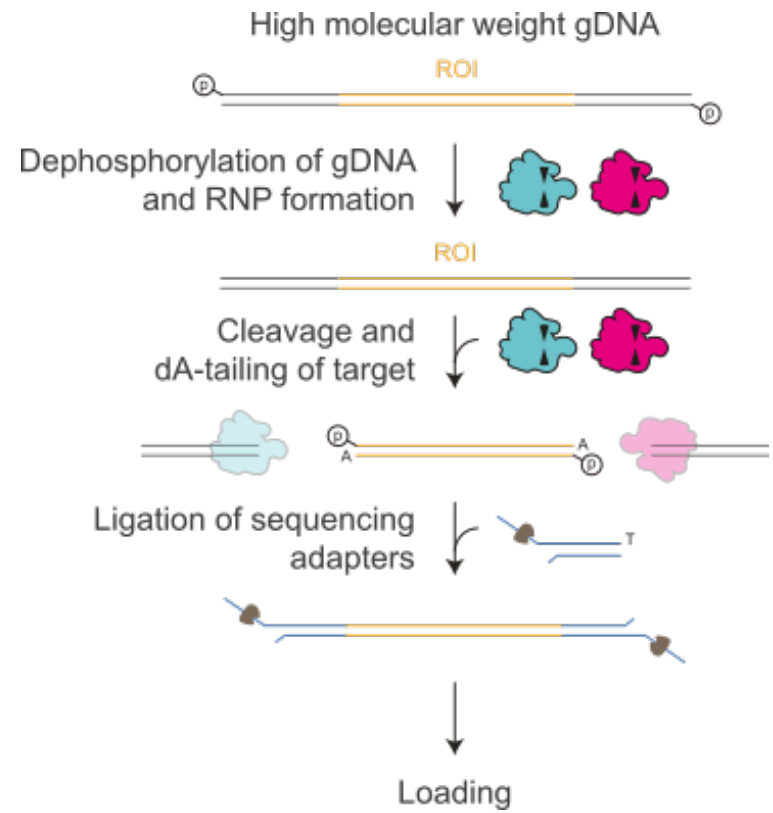


# Long-read sequence analysis

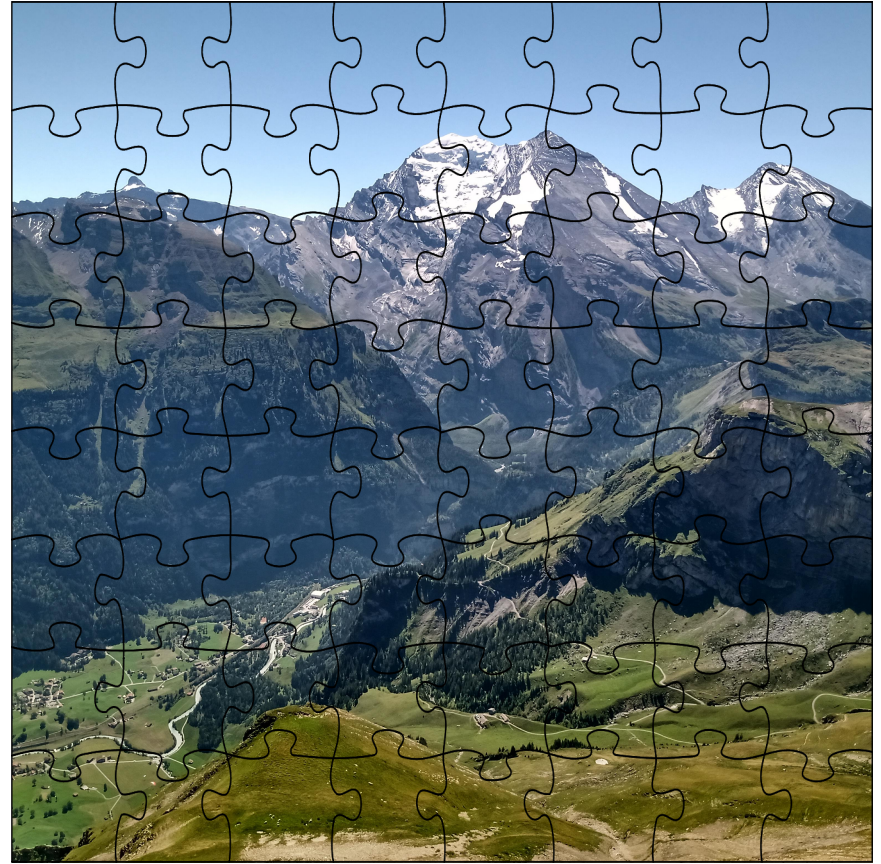
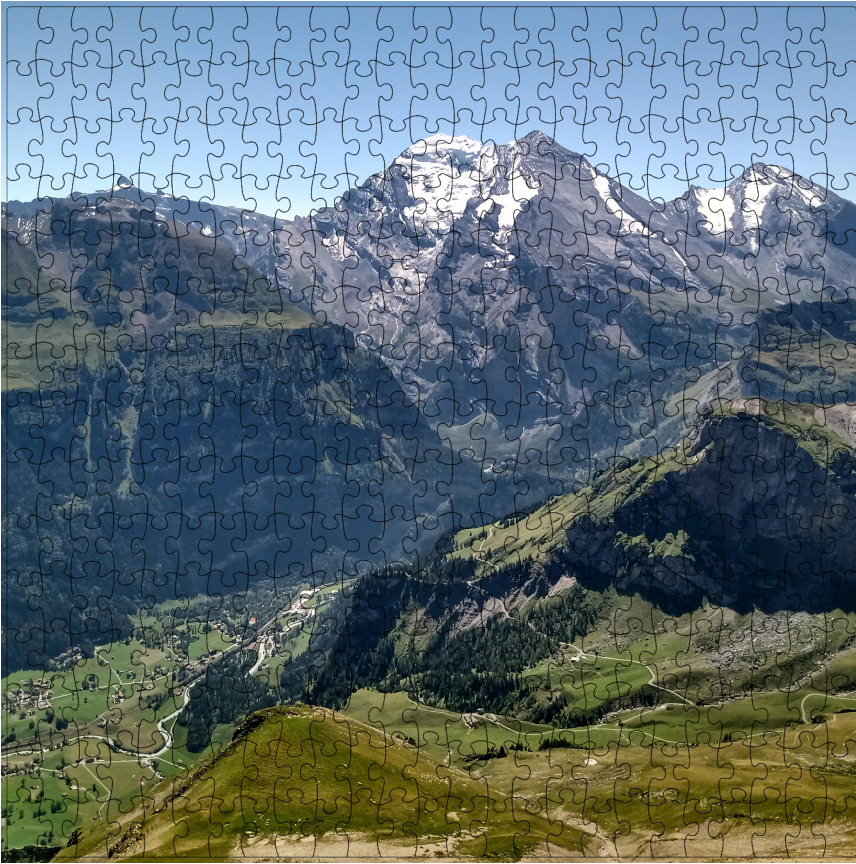
Applications

# New possibilities

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



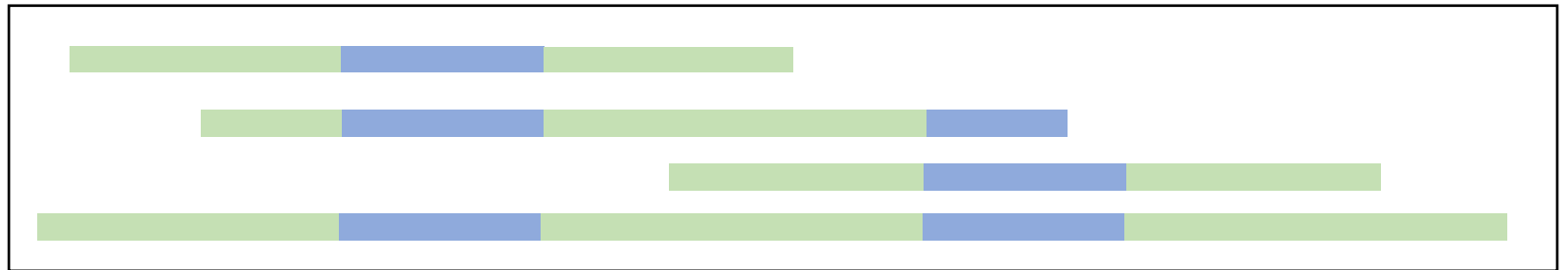
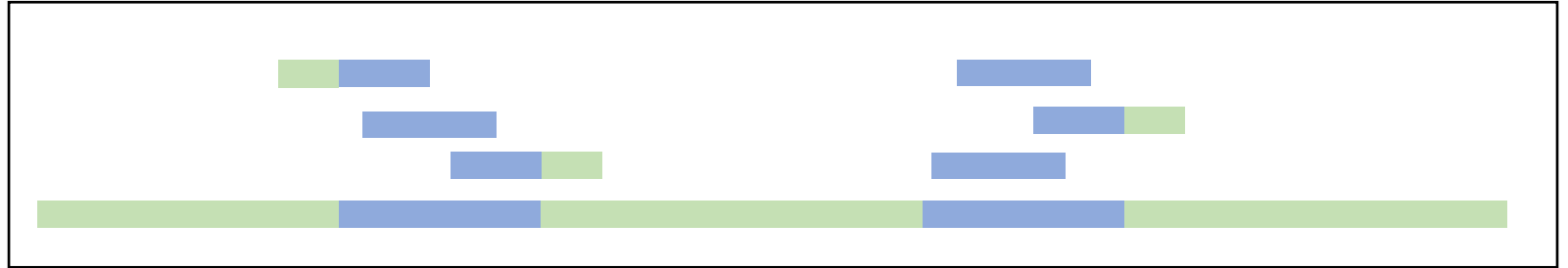
# Why long reads?



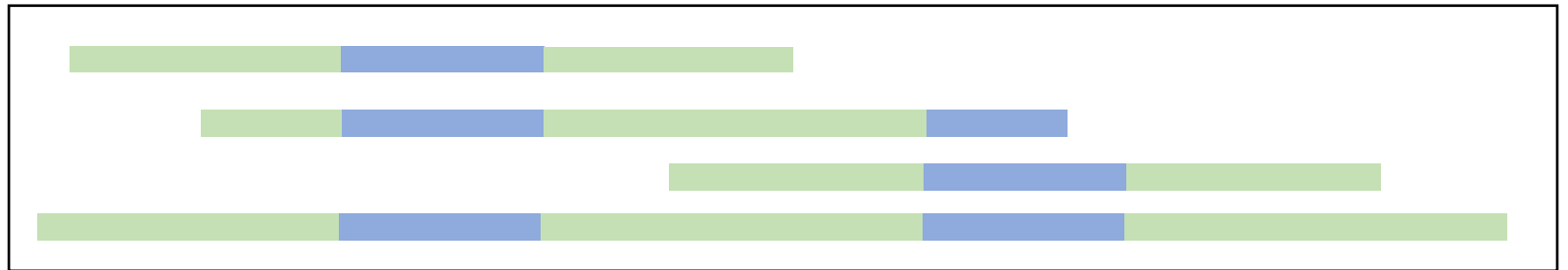
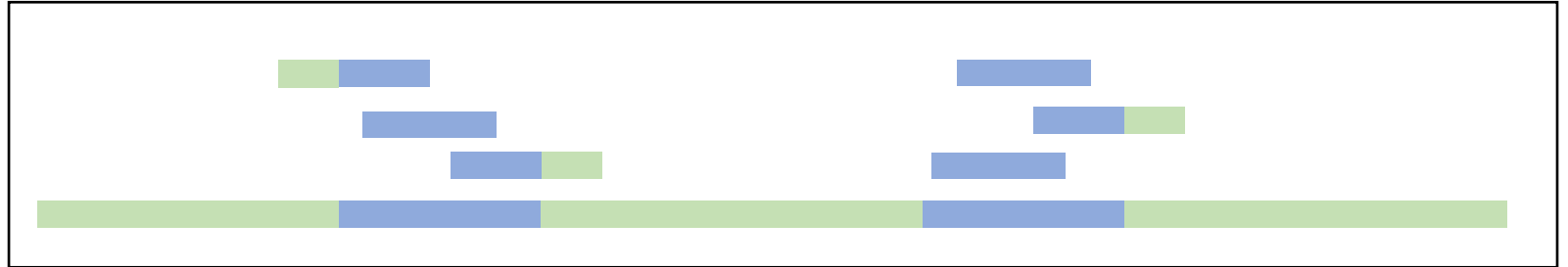
# Applications

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

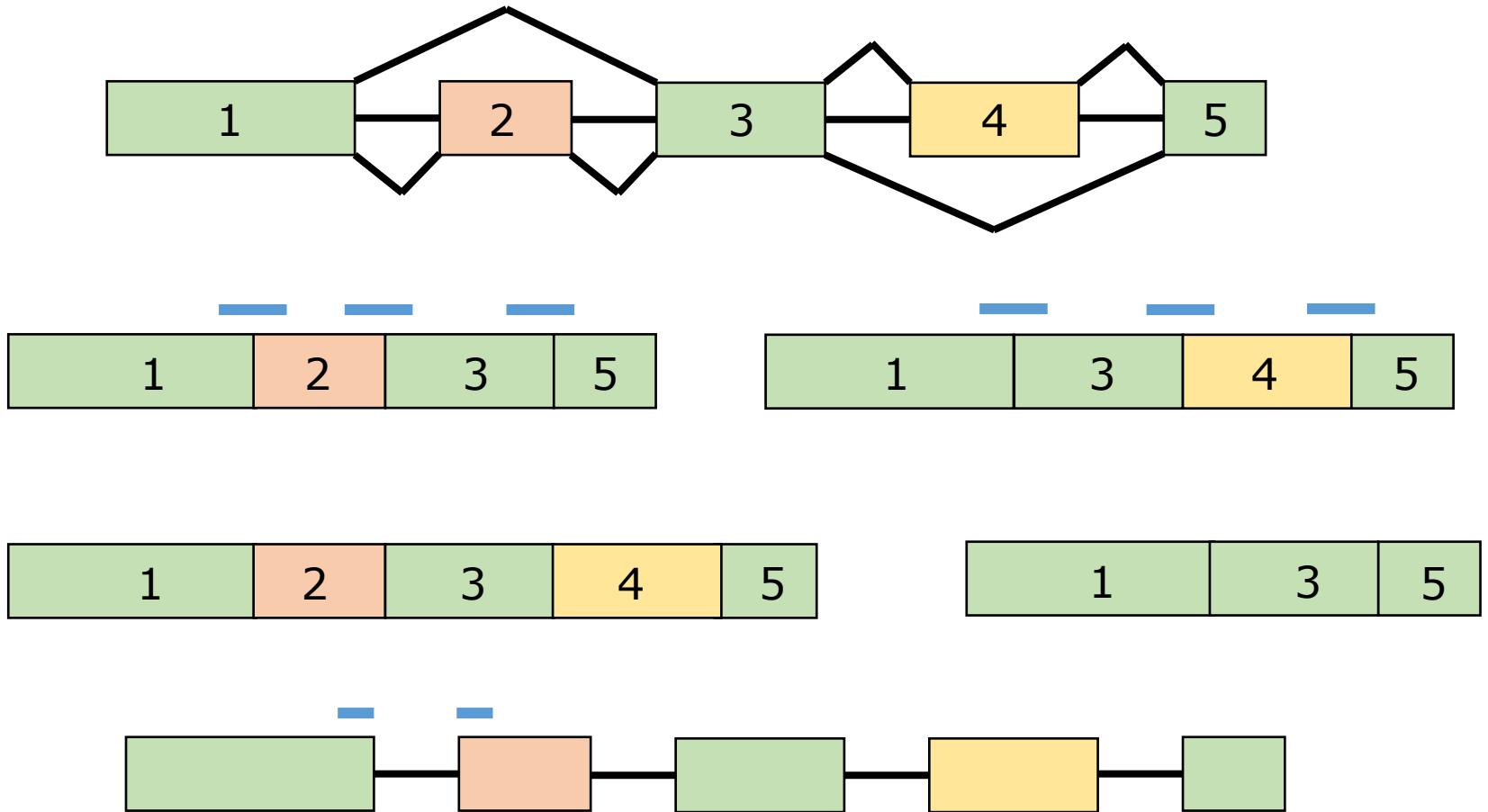
# Mapping and assembly



# Mapping and assembly



# Isoform variation - project 1



# Repeat expansion - project 2





# Organization

- Try to divide tasks as much as possible
- You are **encouraged** to answer questions that are not in the description
- Each group 10 minute presentation starting at 15:00