

SPLIT Assembly workshop



OVERVIEW

Some (!) BACKGROUND:

Genome assembly HANDS-ON:

BACKGROUND

GENERAL INTRO:

https://www.youtube.com/watch?v=KASvIXYPCBI

PAIRED_ENDs:

https://www.youtube.com/watch?v=WTbnk91e2WU

NAIVE DNA ASSEMBLY:

https://www.youtube.com/watch?v=sseqEefj6Gs

GREEDY ASSEMBLY:

https://www.youtube.com/watch?v=KO2UaG8eKEw

OVERLAP LAYOUT CONCSENSUS ASSEMBLY: https://www.youtube.com/watch?v=hB2i Uwm-HQ

DEBRUIJN GRAPH ASSEMBLY:

https://www.youtube.com/watch?v=OY9Q rUCGDw

BACKGROUND

Further (detailed) information (e.g.):

https://www.youtube.com/playlist?list=PL2mpR0RYFQsBiCWVJSvVAO3OJ2t7DzoHA

HANDS-ON

- 1. getting data from ncbi
- 2. raw read quality control
- 3. read processing
- 4. post-processing read quality control
- 5. more short read statistic
- 6. long read (pacbio) & hybrid (llumina, pacbio) assemblies
- 7. contig merging and scaffolding (with nanopore reads)
- 8. assembly evaluations (QUAST, BUSCO3)