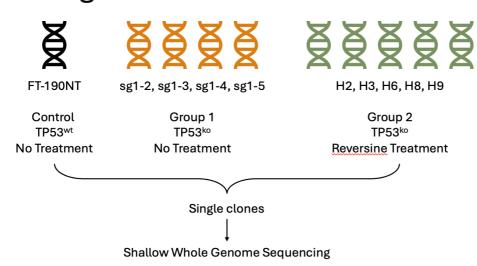
01.Overview

Data stored in Agothos

Introduction

Use Shallow Whole Genome to see evolution of aneuploidy in HGSOC cancers

Background



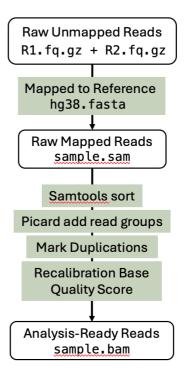
- Download data and upload to HPC to alignment
- Run QDNAseq on the data

Update 1:

Data aligned — Quality of bam checked by samtools stats, average percentage of properly paired reads: 98.75%

GATK Data-Preprocessing Pipeline

Quality of bam checked by <u>samtools</u> stats, average percentage of properly paired reads: 98.75%



https://gatk.broadinstitute.org/hc/en-us/articles/360035535912-Data-pre-processing-for-variant-discovery

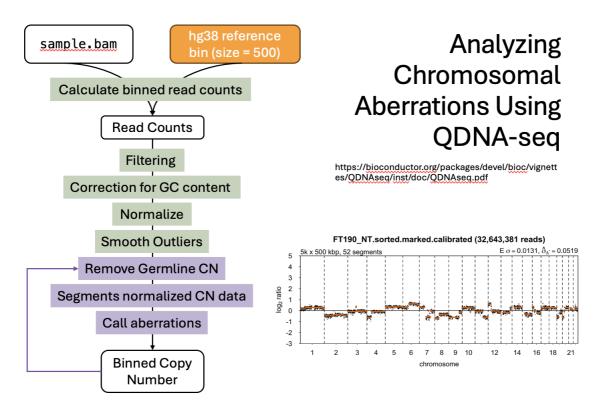
QDNAseq not very smooth, issues:

- 1. Too many segments in the data
- 2. The normal sample have aneuploidy -- how can it be??
- Improve segmentation

Update 2:

Segment at 500 bin results in smooth arm-level aneuploidies.

✓ Remove backgrounds?



Extract the copy number matrix from the control QDNA-seq object and use it as background noise to normalise all other treatment objects.