Atividade 4 - Montagem de Genoma/Algoritmo guloso

Sequenciamento de DNA SHOTGUN

Amplificação me PCR de cada fragmento

Reads

Contig

'Contiguous'

wgs read 1

overlap

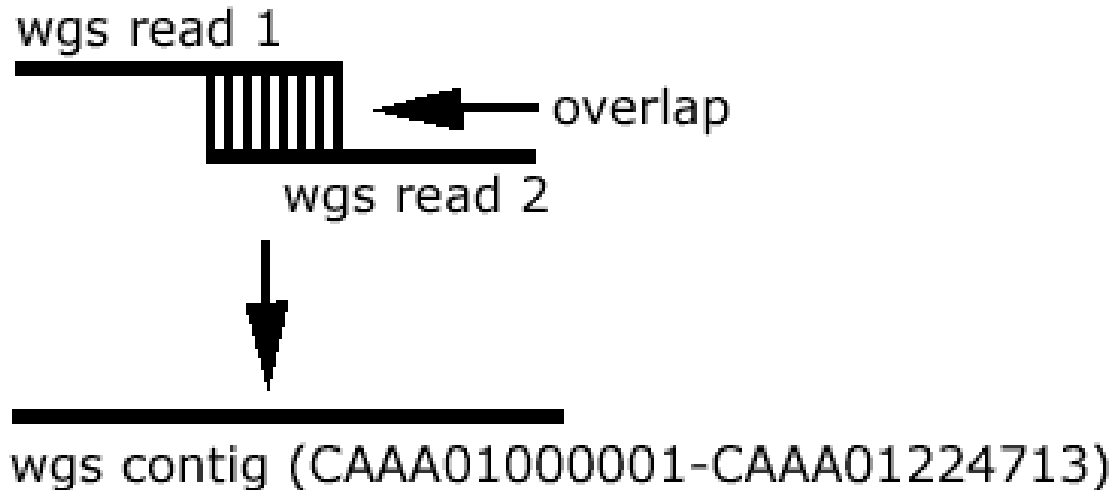wgs read 2

wgs contig (CAAA01000001-CAAA01224713)
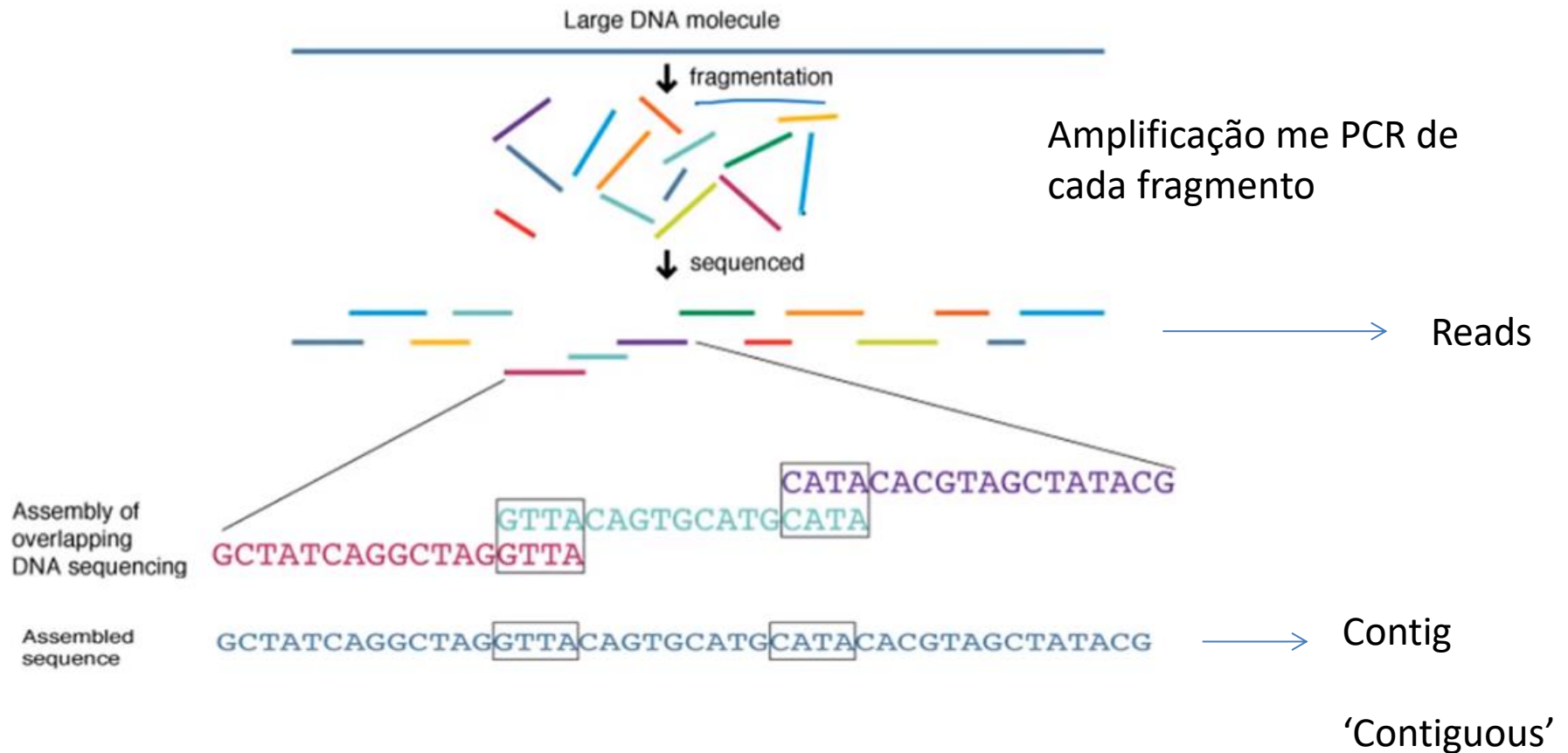
Figure 2. Production of a WGS contig. These contigs contain no gaps, although the sequence may contain 'N's due to sequence ambiguity. WGS contigs obtain accessions similar to the ones shown in the figure, with the first 4 letters representing a project code, the first two numbers representing the assembly version, and the last 6 numbers providing unique identifiers for each contig.

WGA: Whole Genome Assembly

https://www.ncbi.nlm.nih.gov/assembly/basics/#WGA

CTAGGCCCTCAATTTTT

CTCTAGGCCCTCAATTTTT

GGCTCTAGGCCCTCATTTTTT

CTCGGCTCTAGCCCCTCATTTT

TATCTCGACTCTAGGCCCTCA

TATCTCGACTCTAGGCC

TCTATATCTCGGCTCTAGG

GGCGTCTATATCTCG

GGCGTCGATATCT

GGCGTCTATATCT

Reconstruct
this

From these

GGCGTCTATATCTCGGCTCTAGGCCCTCATTTTTT