

EXTRACTION OF DNA

- General considerations
- Sampling
- DNA extraction
- Quantification and integrity
- Optimised DNA extraction from wastewater activated sludge

REAL-TIME QUANTITATIVE PCR (qPCR)

- General considerations
- Materials
- Methods
- Data handling
- Data output and interpretation
- Troubleshooting
- Example

AMPLICON SEQUENCING

- General considerations
- The 16S rRNA gene as a phylogenetic marker gene
- PCR amplification
- DNA sequencing
- Bioinformatic processing
- Data analysis
- General observations
- Protocol: Illumina V1-3 16S rRNA amplicon libraries
- Interpretation and troubleshooting
- Protocol: Illumina V1-3 16S amplicon sequencing

OTHER METHODS