

Learning Objectives

After this lecture you should be able to:

- Explain the basic principles of Illumina sequencing
 - Bridge amplification and cluster formation
 - Reversible dye-terminator sequencing
- Explain the problem of genome assembly
 - Short read assembly
 - How can long reads help?
- Describe applications of DNA sequencing to the analysis of bacterial pathogens
 - Epidemiology
 - Evolution
 - Functional adaptation