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Introduction to Next Generation Sequencing data analysis

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Introduction to Next Generation Sequencing data analysis

- Overview of Next Generation Sequencing technologies
- Introduction to Galaxy
- RNA sequencing: library preparation and experimental design
- Introduction to practical sessions
- Quality control of Illumina data
- NGS read mapping
- Analysis of RNA-seq data
- Data mining with Ensembl Biomart
- Functional analysis of RNA-seq data
- ChIP-sequencing: library preparation and experimental design
- Mapping and visualization of ChIP-seq data
- Peak calling of ChIP-seq data
- Analysis of ChIP-seq peaks
- NGS analysis automatization: Galaxy workflows
- RNA-seq and ChIP-seq data integration

Data files and courses

■ Files needed for practical sessions

■ ftp server

- <ftp://ngs.igbmc.fr/analyzeddata/>
- Login : CNRStraining
- Password : CNRStraining

■ GalaxEast

- Shared Data / Data Libraries / CNRS training

■ Courses and answers to questions addressed during practical sessions

■ <http://genomeast.igbmc.fr/wiki/>

→ Training

→ Introduction to Next Generation Sequencing data analysis