M1 OMICS EC1 : Introduction to OMICS data

OMICS Data and Human Health : M Baron / A Bonnefond / M Derhourhi

- To know the different genetic diseases : rare and frequent. How can we diagnose rare genetic diseases ?
- To know the type of mutations, what are DNA polymorphisms (SNPs) and how we can modelize them by CRISPR/Cas9
- To understand the basics of GWAS
- To know the different levels of gene expression regulation : RNA, post RNA, proteins
- To be able to use the knowledge in term of gene expression regulation to understand what is functional genomics
- To know the basics of NGS