

CB-C1: Introduction to bioinformatics data types and analysis techniques

Person in charge and Representative	McHardy/Klötgen and DeLuca (with help of Jung, Xiao)
Contact person	BIOMEDAS Office
Semester	1
Topic cluster	Computational biology
Duration/Credit	Block – 3x 6h / 3 days
Time	The exact date incl. time will be announced separately
Place	Online. Dial-in data are sent separately
Prerequisite for the course	Lecture: Introduction to multi-omics sequencing data generation and analysis
Aim of the course	<p>This course aims at achieving the following objectives:</p> <ul style="list-style-type: none">● How to browse public data● How to perform simple statistical evaluations● How to assess the quality of bioinformatics high-throughput data● How to preprocess (align/assemble) sequencing data● How to filter and normalize data● How to perform SNP calling, CNV calling and translocation calling● How to perform differential expression analysis from RNA-seq data