



## Center for Computational Biology and Bioinformatics (CCBB) 2022

### CCBB services: **Genomics**

- Exome, Whole Genome sequencing data analyses, SNPs, indels, CNVs

### **Whole Genome sequencing** (standard Level 1 services: ~3 to 5 business days)

Requirements:

- 1) Each sample in your project should have recommended read depth.
- 2) Number of sample submitted are less than 20
- 3) Sample metadata (sample descriptions) shared with CCBB prior to sequencing
- 4) Tumor / normal pairs (if any)
- 5) Reference genomes considered as standard: human, mouse, rat

**Level 1 services:** CCBB effort level - 2 hours

Standard analysis: Alignment to reference genome, ...

### **SNPs/indels/CNVs** (standard Level 1 services: ~3 to 5 business days)

**Level 1 services:** CCBB effort level - 2 hours

Standard analysis: Alignment to reference genome using BWA, Mark Duplicates, Base (Quality Score) Recalibration, Variant Calling (germline/somatic variants specific software), Annotation and QC plots/tables.

Email to [ccbb.at.scripps.edu](mailto:ccbb.at.scripps.edu) to set up a consultation meeting for additional service(s)

**Additional services:** Consult CCBB to get a quote/estimation of effort in hours. CCBB service hourly charges apply.

- Software development, custom pipeline implementation
- Re-analysis of older dataset
- Analysis for public dataset
- Specific figures/tables for publications; writing methods section or contribution for scientific papers/grant proposals
- Functional Analysis using Advaita/GSEA/SetRank
- Letter of Support for grants
- GEO/SRA submissions

