

UC San Diego Center for Computational Biology & Bioinformatics

Scope of Work 2021 RNA-seq Analysis

UCSD Internal rate: \$180/hour

Non-profit rate: \$261/hour

For-profit rate: \$522/hour

Bulk RNA-seq

Primary Analysis

1. Raw data quality control (method: FASTQC)
 2. Alignment of raw data to genome (method: STAR)
 3. Gene or transcript level quantification (method: RSEM or Kallisto)
- Cost: \$90/sample for ≤ 20 samples ; \$45/sample for any additional samples above 20 (bulk rate)

Secondary Analysis

1. Assessment of experimental design and analysis design
 2. Quality control of read quantification & outlier detection (method: MDS plot)
 3. Normalization (method: TMM normalization)
 4. Differential expression analysis (method: limma-voom)
 5. Functional enrichment analysis & pathway analysis (method: Hypergeometric test and GSEA)
 6. Standard figures: MDS plots, MD plots and heatmaps of top 25 DE genes
- Cost: \$3600-\$5400. May be higher for complex experimental designs. Custom pricing for additional requests for custom downstream requests and visualizations.

Data Overlay

1. Assessment of second data set and methods for data overlay (~\$360-\$900)
2. Correlate RNA-seq results and other dataset (~\$1,800-\$4,500)
3. Overlay RNA-seq results and other dataset on significantly dysregulated pathways (~\$900-\$1,800)

Deliverables:

1. Consultation meeting to discuss experimental design, biological questions and analysis
2. Results files from all analyses outlined
3. Open source code from all analyses
4. Summary powerpoint presentation of all results
5. Post-analysis meeting to discuss results

Single cell RNA-seq

Primary Analysis

- CellRanger
Cost: \$180/sample

Secondary Analysis

- Seurat
Cost: \$5,400-\$9,000 depending on scope. Custom pricing for additional design complexity and custom downstream requests or visualizations.

Trajectory Analysis

Cost: \$3,600-\$10,800 depending on scope.

Spatial Transcriptomics

Visium

Primary analysis cost: \$360/sample

Secondary analysis cost: \$3,600-\$7,200 depending on scope.

Nanostring GeoMX

Cost: \$3,600-\$7,200 depending on scope.