

# Bioinformatics and Systems Biology Core

## Services Offered

- Analysis of gene expression data and Gene Set Enrichment Analysis (GSEA)
- NextGen Data Analysis from Genome, Exome, RNASeq, Metagenomic reads
- Sequence/Structure alignments, motifs/pattern discovery from large datasets
- Downstream analysis of proteomic, ChipSeq and Epigenetic data
- Pathway and interaction network analysis using IPA
- Generate heatmaps, Circos diagrams for manuscripts and grant proposals
- Provide bioinformatics support for research projects and pre-grant applications
- Miscellaneous
  - o Creating databases and web-accessible applications
  - o Developing custom tools and programs for data processing and analysis
  - o Setting up BLAST tools and databases

## Bioinformatics Infrastructure

- Servers: 160 core server with 512GB memory and 36TB of storage.
- Databases: Uniprot, GenBank, PDB, KEGG, GO, PFAM, INTERPRO etc.
- Tools: BLAST, CASAVA, Genome Studio, CLC Bio Workbench, IPA, R-Bioconductor, The "Tuxedo Suite" of Bowtie, Tophat, and Cufflinks etc.

## Pricing

- Services are provided at a subsidised rate for the UNMC researchers.

Consultation and Data analysis			
Service provider/Quantity	UNMC rate	Other academic rate	Corporate rate
Director	\$63/hr	\$95/hr	\$125/hr
Data Analyst	\$30/hr	\$45/hr	\$60/hr
Next generation sequencing data analysis			
Up to 25 Samples	\$150/sample	\$225/sample	\$300/sample
Additional Samples	\$125/sample	\$188/sample	\$250/sample

## Bioinformatics and Systems Biology Core

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