STREAMLINE YOUR RESEARCH
from Experimental Design to Interpretation.

We provide researchers, biologists and scientists with genomic answers and insights they can understand and put into action.

ONRAMP

Get better answers with **FULL-SERVICE BIOINFORMATICS**
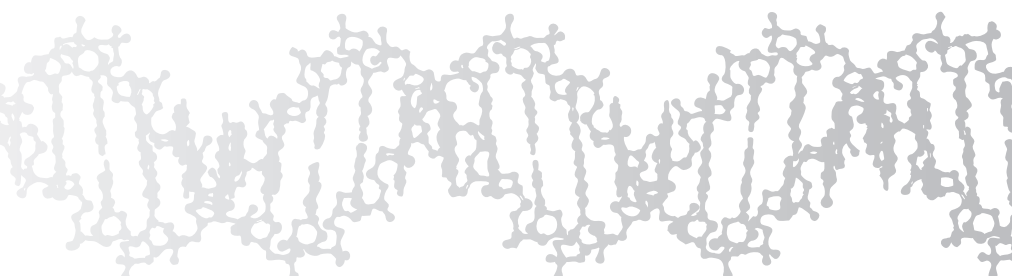
OnRamp Bio empowers researchers, biologists and scientists with genomic answers and insights that can be understood and put into action. Too often, it's the simple questions that end up consuming too much time and result in complex answers that only lead to more questions. We provide intuitive results that bring your genomic data to life, so you don't have to be a bioinformatician to obtain or understand the answers that matter.

Our scientific team is powered by our proprietary software that enables faster and more simplified analyses of NGS data. More than 2000 analyses have been completed on OnRamp Bio's software and systems, which have both been recognized as best practices for bioinformatics by the scientific journal, *Expert Review of Molecular Diagnostics.*

Get clearer answers for your research with OnRamp Bio:
- **Gene expression profiling, Gene Ontology & pathway analysis for transcriptomics**
- **Variant calling & interpretation for whole genome, exome or targeted studies**
- **Protein binding & methylation sites for epigenetics studies**
- **Virus & bacterial diversity & abundance & functional classification for microbiome studies**

With the rapid availability of microarray, next generation sequencing and mass spec technologies, many biologists, researchers and drug developers are now looking for assistance to streamline experiments from experimental design to interpretation so that they can leverage these technologies for greater insights.

GENE EXPRESSION PROFILING

Comprehensive gene expression profiling and analysis

- Rapid analysis of raw RNA-seq or microarray data for insights into target genes, and overall expression levels
- Comprehensive analysis of upregulated and downregulated genes
- Differentially expressed genes across samples, time series, treatments or any condition or criteria
- Sort, filter and identify key patterns and pathways in highly expressed gene signatures
- Industry standard tools published in peer-reviewed journals
- Collaborate and share results across any extended research team

Deliverables

- Intuitive results visualization with targeted data plots, charts, Venn diagrams, heatmaps and clustering that provide answers aligned with experimental objectives
- Differentially expressed gene lists
- Pathway Analysis
- Gene Ontology Analysis
- Gene expression level lists, charts, tables, CSV files
- Disease and miRNA regulators
- Presentation and discussion of results with project lead

Turnaround Time	
Set-Up & Data Transfer	1-2 Days
Analysis	1-2 Days*

* Depending on quantity of samples.

Sample-Based Pricing
call for details

EXPERIMENTAL DESIGN

Expert guidance for efficient and targeted Experimental Design

- Design your experiment to efficiently achieve your objectives
- Avoid frequent technical and scientific pitfalls with improperly designed genomic experiments
- Select the most cost-effective and appropriate technologies to generate optimal data (next-generation sequencing, microarrays, panels, mass spec, etc)
- Start your project with full confidence after feedback and review from our team of experts

Deliverables

- Consultation on proposed experimental design (phone/webex)
- Guidance on process and selection of sequence service providers
- Guidance on required data analysis and pipelines
- Presentation of recommendations (PDF Report)

Turnaround Time	
Project Time	1-4 Hours*

* Depending on scope of project.

PROTEIN-DNA INTERACTION ANALYSIS
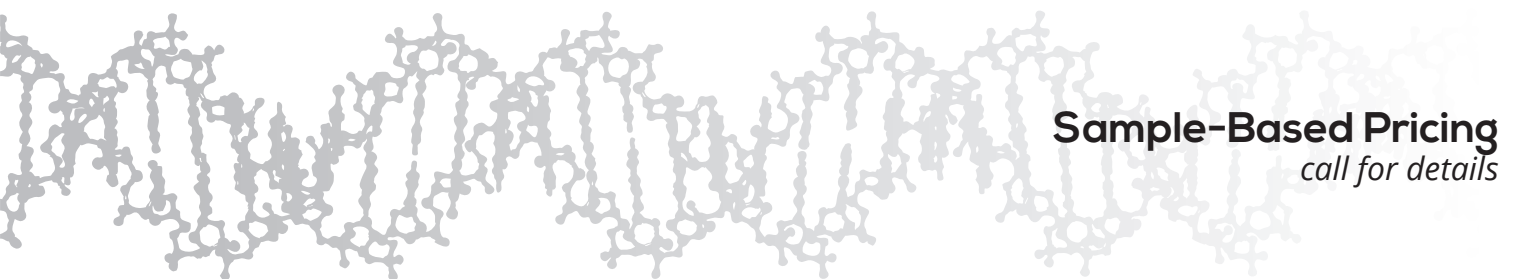
Comprehensive ChIP analysis

- Rapid analysis of raw chromatin immunoprecipitation sequencing ChIP-seq reads to identify regions of protein interaction with DNA
- Annotate and analyze motifs on the predicted binding regions
- Differential analysis of binding between conditions
- Industry standard tools published in peer-reviewed journals
- Collaborate and share results across any extended research team

Deliverables

- Intuitive results visualization with targeted data plots, charts, Venn diagrams, heatmaps and clustering that provide answers aligned with experimental objectives
- Peaks files
- Annotations and motif analysis
- ChIP QC reports
- Differentially bound regions / genes
- Presentation and discussion of results with project lead

Turnaround Time	
Set-Up & Data Transfer	1-2 Days
Analysis	1-5 Days*

* Depending on quantity of samples.

Sample-Based Pricing
call for details

METHYLATION ANALYSIS

Comprehensive differential methylation analysis

- Rapid analysis of raw Methyl-seq or reduced representation bisulfite sequencing (RRBS) reads to identify methylation sites and CpG islands.
- Differential methylation analysis between conditions
- Industry standard tools published in peer-reviewed journals
- Collaborate and share results across any extended research team

Deliverables

- Intuitive results visualization with targeted data plots, charts, Venn diagrams, heatmaps and clustering that provide answers aligned with experimental objectives
- CpG island identification
- Differentially methylated site lists
- Presentation and discussion of results with project lead

Turnaround Time	
Set-Up & Data Transfer	1-2 Days
Analysis	1-5 Days*

* Depending on quantity of samples.

SINGLE CELL GENE EXPRESSION ANALYSIS

Comprehensive analysis of single cell gene expression

- Rapid analysis of raw RNA-seq reads to gain insights into target genes, and overall expression levels
- Comprehensive analysis of upregulated and downregulated genes
- Differentially expressed genes across samples, time series, treatments or any condition or criteria
- *De novo* identification of unique cell sub-populations
- Sort, filter and identify key patterns and pathways in highly expressed gene signatures
- Industry standard tools published in peer-reviewed journals
- Collaborate and share results across any extended research team

Deliverables

- Intuitive results visualization with targeted data plots, charts, Venn diagrams, heatmaps & clustering that provide answers aligned with experimental objectives
- Differentially expressed gene lists
- Gene expression level lists, charts, tables, CSV files
- Presentation and discussion of results with project lead

Turnaround Time	
Set-Up & Data Transfer	1-2 Days
Analysis	1-2 Days*

* Depending on quantity of samples.

WHOLE GENOME / EXOME SEQUENCING DATA ANALYSIS

Advanced analysis and visual analytics for Whole Genome Sequencing

- Rapid analysis of raw DNA-seq reads to identify single nucleotide variants (SNVs)
- Analysis available for single genome, trios, cohorts, or tumor-normal pairs
- Industry standard tools published in peer-reviewed journals
- Collaborate and share results across any extended research team

Deliverables

- Annotated list of variants
- Presentation and discussion of results with project lead

Turnaround Time	
Set-Up & Data Transfer	1-2 Days
Analysis	1-7 Days*

* Depending on quantity of samples.

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