Easy to use and comprehensive transcriptome profiling solution is provided through the Affymetrix GeneChip microarrays. One can measure genes, transcript isoforms, and alternative splicing events. Role of long and short non-coding RNA and assaying FFPE tissues from picogram amounts of total RNA can be obtained.

- Can assay as little as 100 picograms of total RNA
- Whole transcriptome arrays assay exon-exon splice junction, non-coding RNA, equivalent to 480 million mapped reads.
- Variety of array types and assays for various species
- Assay formalin fixed paraffin embedded samples (FFPE)
- Interrogate all mature miRNA sequences from 130ngs of total RNA.
- Access to Affymetrix Transcriptome Analysis Console (TAC) software
- Provide GEO submission support
- Online submission tracking, http://osforms.genome.duke.edu/

**Example:** Transcriptome profiling of 12 human samples representing two phenotypes, i.e. control vs treated cell lines. Total RNA extracted, quality assessed and quantified. Affymetrix probes are generated and hybridized to the Affymetrix arrays, washed, scanned and all data is returned via our Express Database Repository.

**RNA extraction**

- Extraction from 12 cell line samples along with RNA QC
- **$682**

**Affymetrix Processing**

- 12 total RNA samples are processed on the Affymetrix Human Transcriptome Array
- **$6,564**
  - OR
  - 12 total RNA samples are processed on the Affymetrix Human PrimeView Array
  - **$4,596**

**Analysis Options**

- Integrative Genomics Analysis Shared Resource
- DCI Bioinformatics Shared Resource
- Partek Software Access

**Data Storage**

- Data is stored in our secure Express Database Repository
- **FREE**