



# Guru Gobind Singh Indraprastha University

Dwarka Sector-16-C, New Delhi-110078  
University School of Biotechnology

N.I.Q.: GGSIPU/USBT/NS/FRGS/2022-23/01

Dated: 28.10.22

## **Sub: Inviting quotations for RNA Sequencing and data analysis**

Quotations are invited for RNA sequencing of *Arabidopsis thaliana* and data analysis, which should include the following services:

1. RNA QC using Bioanalyzer and RNA quantitation using Qubit fluorometer.
2. mRNA enrichment and preparation of NGS Library of *Arabidopsis thaliana* for RNA sequencing.
3. Sequencing using Illumina platform (HiSeq/ NovaSeq) to generate 2 x150 bp PE with 30 million reads/sample corresponding to 9Gb data/sample.
4. Basic data analysis to include QC and filtering of data, mapping of transcriptomic data on reference genome, complete functional annotations of predicted CDS, differential RNA analysis based on FPKM, identification of up and down-regulated genes, functional annotation of expressed/differentially expressed coding/non-coding RNA, pathway analysis, novel transcript identification, prediction of target genes etc. Data should be presented in the form of graphs and plots.
5. **Expected deliverables:**
  - a. RNA QC and library preparation report
  - b. Sequence read report
  - c. Providing raw data through FTP protocol having read-me file with explanation.
  - d. Compiled analysis reports
  - e. Protocols and algorithms used.
  - f. Submission of data to NCBI
  - g. All data in publication format.

### **Terms and Conditions:**

1. Only recommended/certified protocols to be used for sample processing and analysis.
2. Rates should be quoted in Indian rupees per unit sample and for a total of 4 samples.
3. The price quoted should be inclusive of all taxes and the cost of collecting the samples from the lab.
4. The service provider should submit a list of at least three Government institutes where similar services have been provided.
6. Payment will be made only after submission of complete and satisfactory data analysis reports.
7. Quotes should be submitted in sealed envelope to the following address:  
Prof. Nimisha Sharma, Room# AFR-203, University School of Biotechnology, Guru Gobind Singh Indraprastha University, Sector 16C, Dwarka, New Delhi-1 10078.
8. **Last date for submission of the quotes is 6<sup>th</sup> November, 2022, 5:00 PM**

  
Prof. Nimisha Sharma  
(PI)

Prof. Nimisha Sharma  
University School of Biotechnology  
Guru Gobind Singh Indraprastha University  
Sector-16C, Dwarka, New Delhi-110078

In-charge server room for uploading on university web site.