

Service Name:

RNA library building (including rRNA depletion), and RNA sequencing

1. RNA library building including rRNA depletion

Required activities - their description, range (eg number of samples, forest area), time perspective (requirements) etc.:

- 150 samples
- Library building for RNA sequencing, including ribosomal RNA depletion
- Target and depletion of rRNA transcripts
- Compatible with degraded samples, including FFPE
- Preservation of species of biological interest: including mRNA and noncoding RNAs
- Compatible with platforms: MiSeq/HiSeq/NovaSeq

Methodological requirements

- Generation of Illumina compatible ready-to-sequence libraries from **RNA (it has to be compatible with low inputs of samples)** of rRNA depleted material.

**Požadavky na dodavatele – zkušenosti dané firmy / zkušenosti členů týmu/
Supplier requirements - Company experience / team members experience:**

The company carries out the proposed service on a regular basis.

2. RNA sequencing

Required activities - their description, range (eg number of samples, forest area), time perspective (requirements) etc.:

- 8 lanes
- Transcriptomic and metatranscriptomic sequencing (RNAseq)
- Platform: at least HiSeq4000

Methodological requirements

- Bidirectional sequencing, fragment size 150 bp
- 650-800 million reads per lane
- Quality Scores, at least 75% bases above Q30
- Run Time < 3.5 days
- Up to 100 transcriptomes per run