

Next Generation Sequencing

Dear VBCF Sequencing User,

The following library preparation protocols are available at the facility as of March 2019.

Illumina Library QC:

Services
Library Quality Control

Illumina Library Preparation DNA:

Services
Standard DNA Library preparation
DNA Library preparation, Ultra low input
Tagmentation based library prep (24-48 samples)
Tagmentation based library prep (48-96 samples)
DNA Library preparation, enzymatic shearing

Illumina Library Preparation RNA:

Services
Total RNA Library preparation
mRNA Library preparation, polyA enrichment
mRNA Library preparation, rRNA depletion
mRNA Library preparation , Lexogen SENSE
QuantSeq 3' mRNA (Lexogen)
QuantSeq (24-32 samples)
QuantSeq (> 32 samples)
SMART-Seq v4 Ultra Low Input RNA

Illumina Library Preparation small RNA:

Services
miRNA library preparation

ILLUMINA LIBRARY PREPARATION BISULFITE:

Services
Whole Genome Bisulfite Library Preparation

ILLUMINA SINGLE CELL SEQUENCING:

Services*
10X Genomics Library preparation** Smart-seq 2 library prep (1-24 samples) Smart-seq 2 library prep (24-48 samples) Smart-seq 2 library prep (48-96 samples)

*Please discuss experiments with the facility prior to sample shipment

**up to 4k cells

ILLUMINA LIBRARY PREPARATION 16S:

Services
16S library prep Illumina (96 samples)

PACBIO LIBRARY PREPARATION:

Services*
Pac Bio QC initial DNA Pac Bio QC initial RNA Bluepippin Sizeselection Library Preparation PacBio DNA, large insert Library Preparation PacBio RNA (Iso-seq) Amplicon - Multiplexing 2-8 samples cDNA /Small Insert- Library Preparation 16S Amplification 96x plate

*Please discuss experiments with the facility prior to sample shipment