

GENOMICS RESEARCH LABORATORY

Available Services and Rates

Library Preps for Illumina Sequencing: *Turnaround times of 1-3 weeks depending on sample quality, sample number, type of library prep, and previous samples in the queue

| Services | Virginia Tech Researchers | Non-Virginia Tech Researchers |
|--|---------------------------|-------------------------------|
| DNA Library Preps | | |
| DNA-Seq /ChIP-Seq (per sample) | \$245.00 | \$394.00 |
| DNA-Seq /ChIP-Seq (per sample) High volume rate \geq 48 samples | \$194.00 | \$327.00 |
| Nextera DNA (per sample) | \$149.00 | \$240.00 |
| Nextera XT DNA (per sample, multiplexing up to 96 samples) | \$99.00 | \$159.00 |
| Methyl-Seq with Bisulphite Conversion | \$324.00 | \$522.00 |
| 16S/18S/ITS Amplicon (multiplexing upto 200 samples) | \$62.00 | \$100.00 |
| Exome Capture (Illumina/Agilent, researcher buys capture reagents) | \$175.00 | \$282.00 |
| RNA Library Preps | | |
| mRNA -Stranded-Seq (per sample) | \$275.00 | \$443.00 |
| mRNA -Stranded-Seq (per sample) (High volume rate \geq 48 samples; must order in multiples of 96 to get the rate for all samples) | \$207.00 | \$345.00 |
| Small RNA-Seq (miRNA) (per sample) | \$295.00 | \$475.00 |
| Small RNA-Seq (miRNA) (per sample) (High volume rate \geq 48 samples; must order in multiples of 96 to get the rate for all samples) | \$222.00 | \$357.00 |

Illumina HiSeq 2500 High Output: *Sequencing times of 3-12 days depending on length of sequencing, **170-185 million Single Reads or 340-370 million Paired End Reads per lane, 8 lanes per flowcell

| Services | Virginia Tech Researchers | Non-Virginia Tech Researchers |
|--|---------------------------|-------------------------------|
| 50-Cycle Single Read per lane (50SR) | \$1,195.00 | \$1,924.00 |
| 100-Cycle Single Read per lane (100SR) | \$1,425.00 | \$2,294.00 |
| 50-Cycle Paired End per lane (50PE) | \$1,850.00 | \$2,979.00 |
| 100-Cycle Paired End per lane (100PE) | \$2,325.00 | \$3,743.00 |

Illumina HiSeq 2500 Rapid Run: *Fast sequencing times of 1-3 days depending on length of sequencing, **140-150 million Single Reads / 280-300 million Paired End Reads per lane, 2 lanes per flowcell

| Services | Virginia Tech Researchers | Non-Virginia Tech Researchers |
|--|---------------------------|-------------------------------|
| 50-Cycle Single Read per lane (50SR) | \$1,195.00 | \$1,924.00 |
| 100-Cycle Single Read per lane (100SR) | \$1,475.00 | \$2,375.00 |
| 150-Cycle Single Read per lane (150SR) | \$1,750.00 | \$2,818.00 |
| 50-Cycle Paired End per lane (50PE) | \$1,650.00 | \$2,657.00 |
| 100-Cycle Paired End per lane (100PE) | \$2,395.00 | \$3,856.00 |
| 150-Cycle Paired End per lane (150PE) | \$2,825.00 | \$4,548.00 |
| Lane Split by cBot Loading per lane | \$295.00 | \$475.00 |

Illumina MiSeq: *Sequencing times of 1-3 days depending on length of sequencing, **15 million Single Reads or 30 million Paired End reads for V2 kits and 25 million Single Reads or 50 million Paired End reads for V3 kits

| Services SR/PE, flexible sequencing lengths based on researcher needs | Virginia Tech Researchers | Non-Virginia Tech Researchers |
|--|---------------------------|-------------------------------|
| 50-Cycle, V2 (50SR) | \$1,050.00 | \$1,691.00 |
| 300-Cycle, V2 (150PE) | \$1,525.00 | \$2,455.00 |
| 500-Cycle, V2 (250PE) | \$1,650.00 | \$2,657.00 |
| 150-Cycle, V3 (150SR / 75PE) | \$1,350.00 | \$2,174.00 |
| 600-Cycle, V3 (300PE) | \$2,000.00 | \$3,220.00 |

Sanger Sequencing: 48 hr. turnaround

| | Virginia Tech Researchers | Non-Virginia Tech Researchers |
|-----------------------------|---------------------------|-------------------------------|
| Full Reactions (per sample) | \$5.50 | \$9.00 |

BioAnalyzer / Tape Station: 48 hr. turnaround

| | Virginia Tech Researchers | Non-Virginia Tech Researchers |
|-------------------------------|---------------------------|-------------------------------|
| DNA QC or RNA QC (per sample) | \$9.00 | \$14.00 |

Other Services

| | Virginia Tech Researchers | Non-Virginia Tech Researchers |
|--------------------------------|---------------------------|-------------------------------|
| Covaris Fragmentation | \$12.00 | \$19.00 |
| qPCR of Investigator Libraries | \$15.00 | \$24.00 |
| Qubit (per sample) | \$4.50 | \$7.20 |
| Specialized Services per hr. | \$250.00 | \$403.00 |

***Turnaround Times for library preparation:** Depends on sample quality and approval, time taken for sample resubmission, library quality / failures, previous samples in queue.

***Turnaround Times for HiSeq High Output Sequencing:** Depends on whether there are enough samples to fill all 8 lanes for specific length of sequencing. 100PE is most common. Fast turnaround when all 8 lanes are ordered.

***For Fast Turnaround on HiSeq High Output:** Choose **entire flow cell of 8 lanes**.

***For Very Fast Sequencing Turnaround:** Choose **HiSeq Rapid Run entire flowcell of 2 lanes**.

****The expected read numbers listed depends on the type of libraries.**

FOR MORE INFORMATION:

<http://vbi.vt.edu/about/resources/genomics-research-laboratory>

Email: grl@vbi.vt.edu Lab: 540-231-1229 Office: 540-231-7294

Please request an official quote from **Sai Karyala** at skaryala@vbi.vt.edu before proceeding with sample submission. All rates and services are subject to change without prior notice.

Unless otherwise notified the sample will be discarded upon successful completion of the service requested.