

**Rush University Genomics and Microbiome Core Facility (GMCF) Fee Schedule**

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Cost/units

Unit measure

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	<b><u>Rush INTERNAL rate</u></b>	<b><u>External Rate</u></b>	<b><u>Unit</u></b>
<b><u>Nucleic Acid Isolation</u></b>			
DNA Isolation	\$21.00	\$31.50	Per sample
RNA Isolation	\$28.00	\$42.00	Per sample
Additional DNase Treatment	\$15.00	\$22.50	
Infectious sample add-on cost	\$5.00	\$7.50	Per sample
Matrix barcoded tube	\$2.50	\$3.75	Per sample
Tapestation Analysis	\$10.00	\$15.00	Per sample
Whole genome amplification	\$30.00	\$45.00	Per sample
Whole cell spike-ins	Variable	Variable	Per kit
Claremont Bio for hard-to-lyse samples	\$22.50	\$33.75	Per sample
<b><u>Sample QC</u></b>			
E-Gel 10 Agarose Gel, 1%	\$19.20	\$28.80	Per gel
E-Gel 48 Agarose Gel, 1%	\$48.38	\$72.57	Per gel
Quantification Service with PicoGreen or similar, per 96-well plate	\$147.25	\$220.88	Per plate
Quantification Service with PicoGreen or similar, per 384-well plate	\$368.13	\$552.19	Per plate
<b><u>Amplicon-based next-generation sequencing</u></b>			
Setup fee	\$75.00	\$112.50	Per project
Primer synthesis	variable, list price	variable, list price	Per primer
PCR condition optimization (AT, input DNA conc, primer conc; agarose gel)	\$125.00	\$187.50	Per primer pair
Amplicon Library Prep from gDNA (low throughput, 1-10)	\$12.00	\$18.00	Per sample
Amplicon Library Prep from gDNA (med throughput, 11-96)	\$10.80	\$16.20	Per sample
Amplicon Library Prep from gDNA (high throughput, 97-384)	\$9.72	\$14.58	Per sample
Amplicon Library Prep from gDNA (super high throughput, >384)	\$8.75	\$13.12	Per sample
Fluidigm Amplicon Library Prep from PCR (low throughput, 1-10)	\$8.60	\$12.90	Per sample
Fluidigm Amplicon Library Prep from PCR (medium throughput, 11-96)	\$7.74	\$11.61	Per sample
Fluidigm Amplicon Library Prep from PCR (high throughput, 97-384)	\$6.97	\$10.45	Per sample
Fluidigm Amplicon Library Prep from PCR (super high throughput, >384)	\$6.27	\$9.40	Per sample
PacBio Amplicon Library Preparations	\$19.80	\$29.70	Per sample
ZymoBIOMICS Spike-in, per sample	\$3.00	\$4.50	Per sample
Locked nucleic acid blockers, per sample	\$3.00	\$4.50	Per sample
PCR Cleanup	\$3.50	\$5.25	Per sample
Qubit DNA/RNA Measurement	\$4.50	\$6.75	Per sample
DNA/RNA Sample Dilution	\$2.00	\$3.00	Per sample

**Shotgun DNA sequencing**

Setup fee	\$75.00	\$112.50	Per project
DNA shearing, no reagent			
DNA shearing with Triangle Bio reagent			
Shotgun Library Prep, dsDNA (low throughput, 1-10)	\$100.00	\$150.00	Per sample
Shotgun Library Prep, dsDNA (medthroughput, 11-48)	\$80.00	\$120.00	Per sample
Shotgun Library Prep, dsDNA (high throughput, 49-96)	\$67.00	\$100.50	Per sample
Shotgun Library Prep, dsDNA (super high throughput, >96)	\$56.00	\$84.00	Per sample
Shotgun Library Prep, dsDNA (super high throughput, 384); 1/5th volume Nextera FLEX	\$10,752.00	\$16,128.00	Per 384 samples
Shotgun Library Prep, ssDNA (low throughput, 1-10)	\$160.00	\$240.00	Per sample
Shotgun Library Prep, ssDNA (medthroughput, 11-48)	\$135.00	\$202.50	Per sample
Shotgun Library Prep, ssDNA (high throughput, 49-96)	\$120.00	\$180.00	Per sample
Shotgun Library Prep, ssDNA (super high throughput, >96)	\$110.00	\$165.00	Per sample
<b><u>RNA Sequencing</u></b>			
Setup fee	\$75.00	\$112.50	Per project
Low input RNA Library (low throughput, 1-10)	\$165.00	\$247.50	Per sample
Low input RNA Library (med throughput, 11-24)	\$140.00	\$210.00	Per sample
Low input RNA Library (highthroughput, 24-96)	\$125.00	\$187.50	Per sample
Low input RNA Library (super highthroughput, >96)	\$115.00	\$172.50	Per sample
High input RNA Library (low throughput, 1-10)	\$150.00	\$225.00	Per sample
High input RNA Library (med throughput, 11-24)	\$125.00	\$187.50	Per sample
High input RNA Library (highthroughput, 24-96)	\$95.00	\$142.50	Per sample
High input RNA Library (super highthroughput, >96)	\$90.00	\$135.00	Per sample
JumpCode rRNA Depletion (per reaction)	\$1,250.00	\$1,875.00	Per pool
Poly(A) capture	\$20.00	\$30.00	
Qiagen rRNA depletion (Human/Mouse/Rat)	\$60.00	\$90.00	
Qiagen rRNA depletion (other)	Variable	Variable	
Small RNA libraries, each	\$229.50	\$229.50	Per sample
Small RNA libraries (≥24 on robot)	\$214.65	\$214.65	Per sample
Small RNA libraries (≥48 on robot)	\$199.80	\$199.80	Per sample
Small RNA libraries (≥96 on robot)	\$175.50	\$175.50	Per sample

**Next-Generation Sequencing**

Quality Check (QC) - one library (Qubit, Fragment Analyzer & qPCR)	\$80.00	\$120.00	Per pool
Sample Purification (e-Gel or similar)	\$80.00	\$120.00	Per pool
Pippin Prep Size Selection with Bead Clean-up	\$160.00	\$240.00	Per pool
Illumina iSeq Run	\$900.00	\$1,100.00	Per flow cell
Illumina MiniSeq QC	\$495.00	\$550.00	Per flow cell
Illumina MiniSeq Run	\$900.00	\$1,100.00	Per flow cell
Illumina MiSeq V2 2x250	\$2,131.80	\$2,238.39	Per flow cell
Illumina MiSeq V3 2x300	\$2,708.64	\$2,844.07	Per flow cell
Illumina NovaSeq SP 1x100	\$1,806.00	\$1,896.30	Per lane
Illumina NovaSeq SP 2x150	\$2,499.00	\$2,623.95	Per lane
Illumina NovaSeq SP 2x250	\$3,517.50	\$3,693.38	Per lane
Illumina NovaSeq S1 1x100	\$3,600.00	\$3,780.00	Per lane
Illumina NovaSeq S2 1x100	\$4,880.00	\$5,124.00	Per lane
Illumina NovaSeq S4 2x150	\$6,615.00	\$6,945.75	Per lane
PacBio SMRTBell Library Construction barcoded	\$825.00	\$866.25	Per library
PacBio Sequencing on SMRT 8M cell Sequel 30h movie	\$2,574.00	\$2,702.70	Per SMRT cell
Oxford nanopore 1D library barcoded	\$462.00	\$485.10	Per library
Oxford Nanopore GridION flowcell each (uo to 50 Gb of data)	\$1,174.80	\$1,233.54	Per flow cell
Oxford Nanopore Flongle Flowcell each (up to 1.8 Gb of data)	\$201.50	\$211.58	Per flow cell

**Quantitative analyses (RT-PCR and Digital PCR)**

Reverse transcription, Setup	\$25.00	\$37.50	Per project
Reverse transcription, per sample (variable, depending on enzyme)	Variable	Variable	Per sample
Reverse transcription, per sample (SuperScript IV VILO <b>reagent only</b> )	\$15.00	\$22.50	Per sample
Reverse transcription, per sample (High Capacity cDNA RT <b>reagent only</b> )	\$6.00	\$9.00	Per sample
Reverse transcription, per sample (qScript XLT cDNA SuperMix <b>reagent only</b> )	\$7.02	\$10.53	Per sample
Reverse transcription, COVID WGS enzme			Per sample
Real-time PCR plate setup (assay costs are separate); 96-well plate	\$116.10	\$174.15	Per plate
Real-time PCR plate setup (assay costs are separate); Half of a 384-well plate	\$162.04	\$243.06	Per half-plate
Real-time PCR plate setup (assay costs are separate); 384-well plate	\$258.14	\$387.21	Per plate
Digital PCR (per plate, high density); 24 sample plate; Assay costs separate	\$168.00	\$252.00	Per plate
Digital PCR (per well, lower density); 96 sample plate; Assay costs separate	\$326.00	\$489.00	Per plate
High-throughput Digital PCR with chip and single assay	\$6.00	\$9.00	Per sample
RT-PCR/Digital PCR assays	Variable	Variable	Per assay

**Bisulfite conversion**

Bisulfite, Project setup	\$125.00	\$187.50	Per project
Bisulfite conversion	\$25.00	\$37.50	Per sample
Bisulfite, reduced representation DNA libraries, each	\$205.20	\$205	Per sample
Bisulfite, reduced representation DNA libraries (≥48 on robot)	\$171.45	\$171	Per sample
Bisulfite, genomic DNA libraries	\$186.30	\$186	Per sample
Bisulfite, genomic DNA libraries (≥48 on robot)	\$162.00	\$162	Per sample
<b><u>General items / Other</u></b>			
Staff Labor	\$50.00	\$75.00	Per hour
Bioinformatics analysis (hr)	\$75.00	\$112.50	Per hour
Sanger sequencing	\$10.00	\$10.00	Per sample
Shipping	Variable	Variable	Per event
Infinium Methylation Array, 16 samples	\$6,891.00	\$6,891.00	Per 16 samples
Infinium Methylation Array, 32 samples	\$12,701.00	\$12,701.00	Per 32 samples
All other services: Reagent+consummable pricing (incl shipping) + labor	Variable	Variable	Per project
Swift Biosciences COVID Multi-amplicon panel and adapters	\$12,000.00	\$13,200.00	Per 384 samples
COVID WGS from VTM using SWIFT Multi-amplicon (incl: RNA ext, RT, qPCR, library, 0.5M clusters)	\$125.00	\$187.50	Per sample (<10 sample)
COVID WGS from VTM using SWIFT Multi-amplicon (incl: RNA ext, RT, qPCR, library, 0.5M clusters)	\$105.00	\$157.50	Per sample (10 and above)