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

Date: October 20, 2021 Contact: Kevin Kunstman

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Matsolation	Nucleic Acid Isolation	Rush INTERNAL rate	External Rate	<u>Unit</u>
RANaloslation \$28.00 \$22.00 Per sample Additional DNAse Treatment \$15.00 \$22.50		\$21.00	\$31.50	Per sample
Additional DNAse Treatment		·		•
Infectious sample add-on cost				. c. sampie
Matrix barcoded tube		*	7-2-00	
Martix barcoded tube	Infectious sample add-on cost	\$5.00	\$7.50	Per sample
Whole genome amplification \$30.00 \$45.00 Per sample Wariable Variable Per kit Variable Variable Per kit Variable Per plate Per kit Variable Per plate Per kit Variable Per plate	Matrix barcoded tube	\$2.50	\$3.75	Per sample
Whole cell spike in Claremont Bior Mariable Per kit Claremont Bior Sanato Sanat	Tapestation Analysis	\$10.00	\$15.00	Per sample
Sample QC	Whole genome amplification	\$30.00	\$45.00	Per sample
Sample QC E-Gel 10 Agarose Gel, 1% E-Gel 10 Agarose Gel, 1% E-Gel 48 Agarose Gel, 1% Quantification Service with PicoGreen or similar, per 96-well plate Quantification Service with PicoGreen or similar, per 96-well plate Quantification Service with PicoGreen or similar, per 96-well plate Quantification Service with PicoGreen or similar, per 384-well plate Samplicon-based next-generation sequencing Setup fee Setup fee Setup fee P-GR Condition optimization (AT, input DNA conc, primer conc; agarose gel) Setup fee P-GR Condition optimization (AT, input DNA conc, primer conc; agarose gel) Setup fee Amplicon Library Prep from gDNA (low throughput, 1-10) Setup from gDNA (super high from gDNA (super high throughput, 1-10) Setup from gDNA (super high from gDNA (super high from gDNA (Whole cell spike-ins	Variable	Variable	Per kit
F-Gel 10 Agarose Gel, 1% \$19.20 \$28.80 Per gel E-Gel 48 Agarose Gel, 1% \$48.38 \$77.57 Per gel S48.38 \$72.57 Per plate Per gen	Claremont Bio for hard-to-lyse samples	\$22.50	\$33.75	Per sample
F-Gel 10 Agarose Gel, 1% \$19.20 \$28.80 Per gel E-Gel 48 Agarose Gel, 1% \$48.38 \$77.57 Per gel S48.38 \$72.57 Per plate Per gen	Sample OC			
F-Gel 48 Agarose Gel, 15% \$48.38 \$72.57 Per gel Quantification Service with PicoGreen or similar, per 96-well plate \$147.25 \$220.88 Per plate \$147.25 \$260.81 \$150.00 Per plate \$160.00 \$112.50 Per project \$160.00 \$112.50 Per project \$160.00 \$112.50 Per primer synthesis \$160.00 \$112.50 Per primer plate \$160.00 \$112.50 Per primer plate \$160.00 \$112.50 Per primer plate \$160.00 \$187.50 Per primer plate \$160.00 \$160.00 Per primer plate \$160.00 \$160.00 Per primer plate \$160.00 \$160.00 Per primer plate \$160.00 Per p		\$19.20	\$28.80	Per gel
Quantification Service with PicoGreen or similar, per 96-well plate\$147.25\$220.88Per plateQuantification Service with PicoGreen or similar, per 384-well plate\$368.13\$552.19Per plateAmplicon-based next-generation sequencing\$75.00\$112.50Per projectSetup fee\$75.00\$112.50Per primerPCR condition optimization (AT, input DNA conc, primer conc; agarose gel)\$125.00\$187.50Per primer pairAmplicon Library Prep from gDNA (low throughput, 1-10)\$12.00\$18.00Per sampleAmplicon Library Prep from gDNA (med throughput, 11-96)\$10.80\$16.20Per sampleAmplicon Library Prep from gDNA (super high throughput, >384)\$9.72\$14.58Per sampleFluidigm Amplicon Library Prep from pDNA (super high throughput, 1-10)\$8.60\$12.90Per sampleFluidigm Amplicon Library Prep from PCR (medium throughput, 1-16)\$5.77.4\$11.61Per sampleFluidigm Amplicon Library Prep from PCR (ligh throughput, 97-384)\$6.97\$10.45Per sampleFluidigm Amplicon Library Prep from PCR (super high throughput, >384)\$6.97\$10.45Per sampleFluidigm Amplicon Library Prep from PCR (super high throughput, >384)\$6.27\$9.40Per samplePacBio Amplicon Library Prep arations\$19.80\$2.9.70Per sampleZymoBIOMICS Spike-in, per sample\$3.00\$4.50Per samplePCR Cleanup\$3.50\$5.25Per sampleQubit DNA/RNA Measurement\$4.50\$6.75Per sample				_
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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 Qubit DNA/RNA Measurement \$3.50 \$5.25 Per sample \$4.50 Per sample	Fluidigm Amplicon Library Prep from PCR (low throughput, 1-10)	\$8.60	\$12.90	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 Locked nucleic acid blockers, per sample Locked nucleic acid blockers, per sample PCR Cleanup Qubit DNA/RNA Measurement \$3.50 \$5.25 Per sample Qubit DNA/RNA Measurement	Fluidigm Amplicon Library Prep from PCR (medium throughput, 11-96)	\$7.74	\$11.61	Per sample
PacBio Amplicon Library Preparations \$19.80 \$29.70 Per sample ZymoBIOMICS Spike-in, per sample Locked nucleic acid blockers, per sample PCR Cleanup Qubit DNA/RNA Measurement \$3.50 \$5.25 Per sample Qubit DNA/RNA Measurement	Fluidigm Amplicon Library Prep from PCR (high throughput, 97-384)	\$6.97	\$10.45	Per sample
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Locked nucleic acid blockers, per sample\$3.00\$4.50Per samplePCR Cleanup\$3.50\$5.25Per sampleQubit DNA/RNA Measurement\$4.50\$6.75Per sample	PacBio Amplicon Library Preparations	\$19.80	\$29.70	Per sample
Locked nucleic acid blockers, per sample\$3.00\$4.50Per samplePCR Cleanup\$3.50\$5.25Per sampleQubit DNA/RNA Measurement\$4.50\$6.75Per sample	ZymoBIOMICS Spike-in, 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		\$3.00		•
Qubit DNA/RNA Measurement\$4.50\$6.75Per sample	· · · · · · · · · · · · · · · · · · ·	\$3.50	\$5.25	•
·		\$4.50		•
	DNA/RNA Sample Dilution	\$2.00	\$3.00	Per sample

Cost/units

Unit measure

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) Shotgun Library Prep, dsDNA (medthroughput, 11-48) Shotgun Library Prep, dsDNA (high throughput, 49-96) Shotgun Library Prep, dsDNA (super high throughput, >96) Shotgun Library Prep, dsDNA (super high throughput, 384); 1/5th volume Nextera FLEX	\$100.00 \$80.00 \$67.00 \$56.00 \$10,752.00	\$150.00 \$120.00 \$100.50 \$84.00 \$16,128.00	Per sample Per sample Per sample Per 384 samples
Shotgun Library Prep, ssDNA (low throughput, 1-10) Shotgun Library Prep, ssDNA (medthroughput, 11-48) Shotgun Library Prep, ssDNA (high throughput, 49-96) Shotgun Library Prep, ssDNA (super high throughput, >96)	\$160.00	\$240.00	Per sample
	\$135.00	\$202.50	Per sample
	\$120.00	\$180.00	Per sample
	\$110.00	\$165.00	Per sample
RNA Sequencing Setup fee Low input RNA Library (low throughput, 1-10) Low input RNA Library (med throughput, 11-24) Low input RNA Library (highthroughput, 24-96) Low input RNA Library (super highthroughput, >96)	\$75.00	\$112.50	Per project
	\$165.00	\$247.50	Per sample
	\$140.00	\$210.00	Per sample
	\$125.00	\$187.50	Per sample
	\$115.00	\$172.50	Per sample
High input RNA Library (low throughput, 1-10) High input RNA Library (med throughput, 11-24) High input RNA Library (highthroughput, 24-96) High input RNA Library (super highthroughput, >96)	\$150.00	\$225.00	Per sample
	\$125.00	\$187.50	Per sample
	\$95.00	\$142.50	Per sample
	\$90.00	\$135.00	Per sample
JumpCode rRNA Depletion (per reaction) Poly(A) capture Qiagen rRNA depletion (Human/Mouse/Rat) Qiagen rRNA depletion (other)	\$1,250.00 \$20.00 \$60.00 Variable	\$1,875.00 \$30.00 \$90.00 Variable	Per pool
Small RNA libraries, each Small RNA libraries (≥24 on robot) Small RNA libraries (≥48 on robot) Small RNA libraries (≥96 on robot)	\$229.50	\$229.50	Per sample
	\$214.65	\$214.65	Per sample
	\$199.80	\$199.80	Per sample
	\$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 <u>reagent only</u>)	\$15.00	\$22.50	Per sample
Reverse transcription, per sample (High Capacity cDNA RT <u>reagent only</u>)	\$6.00	\$9.00	Per sample
Reverse transcription, per sample (qScript XLT cDNA SuperMix <u>reagent only</u>)	\$7.02	\$10.53	Per sample
Reverse transcription, COVID WGS enztme			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 Bisulfite conversion	\$125.00	\$187.50	Per project
	\$25.00	\$37.50	Per sample
Bisulfite, reduced representation DNA libraries, each Bisulfite, reduced representation DNA libraries (≥48 on robot) Bisulfite, genomic DNA libraries Bisulfite, genomic DNA libraries (≥48 on robot)	\$205.20	\$205	Per sample
	\$171.45	\$171	Per sample
	\$186.30	\$186	Per sample
	\$162.00	\$162	Per sample
General items / Other Staff Labor Bioinformatics analysis (hr) Sanger sequencing Shipping Infinium Methylation Array, 16 samples Infinium Methylation Array, 32 samples	\$50.00	\$75.00	Per hour
	\$75.00	\$112.50	Per hour
	\$10.00	\$10.00	Per sample
	Variable	Variable	Per event
	\$6,891.00	\$6,891.00	Per 16 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 COVID WGS from VTM using SWIFT Multi-amplicon (incl: RNA ext, RT, qPCR, library, 0.5M clusters) COVID WGS from VTM using SWIFT Multi-amplicon (incl: RNA ext, RT, qPCR, library, 0.5M clusters)	\$12,000.00 \$125.00 \$105.00	\$13,200.00 \$187.50 \$157.50	Per 384 samples Per sample (<10 sample) Per sample (10 and above)