Fee Structure - Molecular Biology

Experimental Description RNA isolation using Tri-Reagent (unit is per sample)	Reagents needed Tri-Reagent 1-bromo-3-chloropropane (BCP) Isopropanol Absolute Ethanol Nuclease Free Water Snap cap tubes Tips- 0.1-10ul Tips- 1-20ul Tips- 10-100oul Nuclease free microfuge tubes DNAse Gloves Conical (50ml)	Reagent Description	Vendor and # MRC; TR-118 MRC; BP151 Fisher; AC327270010 Fisher; BP2818500 Fisher; NC9630308 Fisher; 14-959-11A VWR; 89140-160 VWR; 89140-936 VWR; 89147-468 VWR; 10011-722 Invitrogen; AM1906 VWR; 40101-346 VWR; 430829	List (no snipping) Cost and unit \$108.00 for 100ml \$27.00 for 200ml \$73.06 for 1L \$37.90 for 500ml \$184.87 for 4L \$70.21 for 500 tubes \$37.75 for 10 racks \$37.75 for 10 racks \$90.33 for 8 racks \$21.00 for 500 tubes \$90.50 for 50 rxns \$14.00 for 100 gloves \$107.31 for 500 conicals	Amount needed/unit Iml 0.1ml 0.5ml 1ml (75%) 0.25ml 1 tube see column I 2 tubes 1 rxn 2 gloves 2 conicals Total/sample without DNAse	Cost/unit processed \$1.08 \$0.02 \$0.04 \$0.06 \$0.02 \$0.14 \$1.02 estimate 2 racks of 1000ul tips and 0.5 rack of 200ul tips per 24 isolations \$0.08 \$1.81 \$0.28 \$0.43 \$4.98 \$3.17
RNA + Protein isolation- Tri-Reagent (unit is per sample)	All RNA reagents guanidine hydrochloride Ethanol glycerol Acetone Nuclease free microfuge tubes Tips- 101-1000ul Gloves Conical (50ml)		VWR; BDH4504-250GP Fisher; BP2818500 VWR; BDH4154-500ml VWR; E646-500ml VWR; 10011-722 VWR; 89217-468 VWR; 40101-346 VWR; 430829	\$35.68 for 250g \$37.99 for 500ml \$30.38 for 500ml \$11.14 for 500ml \$21.00 for 500 tubes \$90.33 for 8 racks \$14.00 for 100 gloves \$121.39 for 500 conicals	0.08g 2.85ml 0.075ml 1.5ml 2 tubes 0.2 racks 2 gloves 2 conicals Cost just for protein isol. Total/sample without DNAse	\$4.98 \$0.01 \$0.23 \$0.01 \$0.03 \$0.08 \$2.26 \$0.28 \$0.49 \$4.47 \$8.37 \$6.56
RNA + Protein + DNA - Tri-Reagent (unit is per sample)	All RNA reagents All Protein reagents Nuclease free microfuge tubes Absolute Ethanol Sodium Citrate Conical (50ml) Gloves Tips- 101-1000ul		VWR; 10011-722 Fisher; BP2818500 VWR; 97061-008 VWR; 430829 VWR; 40101-346 VWR; 89217-468	\$21.00 for 500 tubes \$37.99 for 500ml \$16.25 for 500g \$106.46 for 500 conicals \$14.00 for 100 gloves \$90.33 for 8 racks	2 tubes 4ml 0.06g 1 conical 2 gloves 0.2 racks Cost just for DNA isol. Total/sample without DNAse	\$4.98 \$4.47 \$0.08 \$0.32 \$0.01 \$0.22 \$0.28 \$2.26 \$4.25 \$12.62 \$10.81
RNA Isolation - RNAEasy Mini- Qiagen	Kit Qiashredder Gloves Tips- 101-1000ul		Qiagen; 74104 Qiagen; 79654 VWR; 40101-346 VWR; 89217-468	\$306.32 for 50 Rxns \$347.16 for 250 \$14.00 for 100 gloves \$90.33 for 8 racks	1 rxn 1 shredder 2 gloves 0.1 rack Total/sample	\$6.13 \$1.39 \$0.28 \$1.13 \$8.93
RNA + Protein + DNA- All Prep- Qiagen	Kit Qiashredder Gloves Tips- 101-1000ul		Qiagen; 80004 Qiagen; 79654 VWR; 40101-346 VWR; 89217-468	\$536.83 for 50 \$347.16 for 250 \$14.00 for 100 gloves \$90.33 for 8 racks	1 rxn 1 shredder 2 gloves 0.2 rack Total/sample	\$10.74 \$1.39 \$0.28 \$2.26 \$14.67
Reverse Transcription (with DNAse	Kit- Quantitect		Qiagen; 205311	\$213.80 for 50	1 rxn	\$4.28

List (no shipping)

included)	Gloves Tubes Tips- 0.1-10ul Tips- 1-200ul	VWR; 40101-346 VWR; 10011-780 VWR; 89140-160 VWR; 89140-936	\$14.00 for 100 gloves \$31.32 for 1000 \$37.75 for 10 racks \$37.75 for 10 racks	2 gloves 1 tube 0.1 rack 0.1 rack Total/sample	\$0.28 \$0.03 \$0.38 \$0.38 \$5.35
SYBR Green qPCR (not including primers) Unit is one plate	Master Mix Plate Film 18s rRNA reagents Nuclease free water Tips- 0.1-10ul Tips- 1-200ul Tips- 101-1000ul Gloves	ABI; 4309155 VWR; 47749-876 ABI; 4311971 ABI; 4310893E Fisher; NC9630308 VWR; 89140-160 VWR; 89140-936 VWR; 89217-468 VWR; 40101-346	\$442.00 for 800rxns \$110 for 50 plates \$257 for 100 files \$610.00 for 4000 rxns \$184.87 for 4L \$37.75 for 10 racks \$37.75 for 10 racks \$90.33 for 8 racks \$14.00 for 100 gloves	1 plate (96 wells) 1 plate (96 wells) 1 plate (96 wells) 1 plate (48 wells) 3ml per plate 1.5 racks/plate 0.5 racks/plate 0.1 racks/plate 2 gloves Total/plate	\$54.03 \$2.20 \$2.57 \$7.32 \$0.14 \$5.67 \$1.89 \$1.13 \$0.28 \$75.23
Taqman qPCR (not including primer/probe sets) Unit is one plate	Master Mix Plate Film 18s rRNA reagents Nuclease free water Tips- 0.1-10ul Tips- 1-200ul Tips- 101-100oul Gloves	ABI; 4324018 VWR; 47749-876 ABI; 4311971 ABI; 4310893E Fisher; NC9630308 VWR; 89140-160 VWR; 89140-936 VWR; 89217-468 VWR; 40101-346	\$453 for 800 rxns \$110 for 50 plates \$257 for 100 files \$610.00 for 4000 rxns \$184.87 for 4L \$37.75 for 10 racks \$37.75 for 10 racks \$90.33 for 8 racks \$14.00 for 100 gloves	1 plate (96 wells) 1 plate (96 wells) 1 plate (96 wells) 1 plate (48 wells) 3ml per plate 1.5 racks/plate 0.5 racks/plate 0.1 racks/plate 2 gloves Total/plate	\$54.36 \$2.20 \$2.57 \$7.32 \$0.14 \$5.67 \$1.89 \$1.13 \$0.28 \$75.56
Traditional PCR (not including primers or DNA isolation) Unit is per sample	Master Mix Tubes Agarose Buffer Ethidium Bromide Nuclease free water Gloves Ladder	ABI; 4318739 VWR; 10011-780 VWR; IB7040 VWR; IB70155 VWR; IB40075 Fisher; NC9630308 VWR; 40101-346 VWR; 101414-452	\$297.00 for 5ml \$31.32 for 1000 \$115.26 for 100g \$52.75 for 11 of 20X \$30.68 for 10ml of 10mg/ \$184.87 for 4L \$14.00 for 100 gloves \$42.64 for 50 runs	1 rxn 1 tube 1 gel (medium; 1.5%) 1L m 10ul 1ml 2 gloves 1 lane Total per sample	\$1.49 \$0.03 \$2.59 \$2.63 \$0.03 \$0.05 \$0.28 \$0.85 \$7.95
Agilent Chips	Nano Chip Pico Chip Gloves Tips	Agilent; 5067-1511 Agilent; 5067-1513 VWR; 40101-346 VWR; 89140-160	\$612.90 for 25 chips \$672.30 for 25 chips \$14.00 for 100 gloves \$37.75 for 10 racks	1 sample 1 sample 2 gloves 0.1 rack Total/Nano sample Total/Pico sample Total/Nano Chip Total/Pico Chip	\$2.04 \$2.24 \$0.28 \$0.38 \$2.70 \$2.90 \$32.40 \$34.80
Quantitation on NanoDrop	Core Biology Facility		\$10.00/visit (unlimited sar	mples)	

Cloning

Labor charge (hourly; undergraduate student)

will have to be determined on a case by case basis as vectors, primers, enzymes, plasmid preps and sequencing costs will vary

\$8.00/hr

Histology Fee Structure

Experimental Description Pre-processing- Carnoys Unit is 1 jar	Reagents needed Carnoys Fixative (\$17.85/L)	Reagent Description Carnoy's Solution	Vendor and # Fisher; R18510004C		Cost and unit \$71.40 for 4L	Amount needed/unit 120ml Carnoys/jar	Cost/unit processed \$2.15
	70% Ethanol	Ethanol	Chem Stores		\$14.83/gallon	480ml/jar	\$1.42
						Total/jar	\$3.57
Pre-processing- NBF	10% Buffered Formalin		Fisher; SF100-4		\$29.90 for 4L	120ml NBF/jar	\$0.90
Unit is 1 jar	70% Ethanol	Ethanol	Chem Stores		\$14.83/gallon	120ml /jar Total/jar	\$0.36 \$1.26
Putting Tissues into Cassettes	Mega Cassettes		VWR; 25608-844		\$166.44/750	1 cassette	\$0.22 each
	Blue Biopsy Cassettes		VWR; 25608-754		\$110.00/500	1 cassette	\$0.22 each
	Uni-Cassettes (any color)		VWR; various		\$102.01/500	1 cassette	\$0.21 each
	Thomas Scientific Blades		Fisher; 6727C18		\$101.12/25	1 blade	\$4.04 each
	Single Edge extra long blades		VWR; 100500-638		\$58.44/250	1 blade	\$0.23 each
	Sponges		VWR; 95039-818		\$189.35/1000	1 sponge	\$0.19 each
	Regular razor blades		VWR; 55411-050		\$16.29/100	1 blade	\$0.16 each
	70% Ethanol	Ethanol	Chem Stores		\$14.83/gallon	1L/big jar	\$2.90 each
Processor cost			Per cassette charge				
70% every 1800 cassettes	3684ml 95% EtOH	\$14.37	7	\$0.01	I	Carbon Filter	\$264.90
95% every 1800 cassettes	5000ml 95% EtOH	\$19.50)	\$0.01	I	Every 6 months	
100% every 1800 cassettes	5000ml 100% EtOH	\$26.00)	\$0.01	l	•	
Histoclear every 1800 cassettes	5000ml Histoclear	\$140.00)	\$0.08	3		
2, 95% every 3600 cassettes	10L 95% EtOH	\$39.00)	\$0.01	l		
2, 100% every 3600 cassettes	10L 100% EtOH	\$52.00		\$0.01			
2, Histoclear every 3600 cassettes	10L Histoclear	\$280.00		\$0.08			
1 cleaning Xylene every 1800	5000ml Xylene	\$34.90		\$0.02			
1 cleaning 100% EtOH every 1800	5000ml 100% EtOH	\$26.00		\$0.01			
1 wax bath every 1800 cassettes	4 bags of wax	\$46.28		\$0.03			
2 wax baths every 3600 cassettes	8 bags of wax	\$92.56		\$0.03			
2 wax baths every 3000 cassettes	o bugs of wax	Tota		\$0.30			
Embedding cost	2 bags of wax/300 cassettes	100	•	\$0.08			
Embedding cost	2 bugs of waxy soo cussettes	Total to process/embed		\$0.38			
	Required additional reagent an			\$1.36			
	nequired additional reagent an	id iliter costs		\$1.74			
				γ1. /-			
Cattle	Ulah mastila hil d		VIII 25000 001		\$402 F2/F0 ! !	62.05 /bl- d	
Cutting	High profile blades		VWR; 25608-961		\$102.53/50 blades	\$2.05/blade	
	Low profile blades		VWR; 25608-964		\$103.35/50 blades	\$2.07/blade	
	Slides		Fisher; 22-230-900		\$705.20/1440 slides	\$0.49/slide	
Slides			Fisher; 22-230-900		\$705.20 for 10 boxes	\$70.52/box	
Coverslips			VWR; 48404-466		\$71.31 for 10 boxes	\$7.13/box	
ps					7. 1.01.10. 10 DONES	+ - 120, 200	
Labor charge (hourly; undergraduate stu	udent)				\$8.00/hr		

Staining- will have to be considered on a case-by-case basis Reagents (dyes, washes, Abs, developers, etc.)

Items to build into a Lab Common Reagent/Consumable/Maintenance Fee

Estimated Occurrence	<u>Total</u>	Monthly Breakdown
yearly	\$200.00	\$16.67
yearly	\$1,200.00	\$100.00
every other year	\$495.00	\$20.63
yearly	\$700.00	\$58.33
twice a year	\$80.00	\$13.33
	\$1,200.00	\$100.00
	Amount to bring in/month	\$308.96
	yearly yearly every other year yearly	yearly \$200.00 yearly \$1,200.00 every other year \$495.00 yearly \$700.00 twice a year \$80.00 \$1,200.00

If \$308.96 is charged monthly to each of the 4 main investigators that would= \$77.24

If we have 5 users per month then it would= \$61.79

If we have 6 users per month then it would= \$51.49

*includes, among other supplies:

bench paper kim wipes nail polish for cover slipping soaps and cleaning reagents paper toweling (white-absorbent) cutting board for cassetting station germicidal wipes squirt bottles sharpies gas tank rentals lab tape pap pens for histology lab ink for printers

many other small miscellaneous items used daily

windex