

IRIC's CORE FACILITIES - PRICING 2009

For information, please contact IRIC's Core Facilities Manager at richard.martin@umontreal.ca

Rates are effective as of April 1st 2009

	UdeM campus	UdeM affiliates	Academia	Industry
BIO-IMAGING - rate per hour				
Confocal/Swept field	60 \$	100 \$	120 \$	300 \$
Axio-Imager and others	30 \$	50 \$	65 \$	300 \$
FLOW CYTOMETRY - rate per hour				
Analysis				
BD LSR II, self operator	35 \$	40 \$	45 \$	100 \$
BD LSR II, with assistance	85 \$	90 \$	95 \$	120 \$
Sorting				
BD FACS Aria	85 \$	90 \$	95 \$	200 \$
AutoMacs (per sample)	12 \$	15 \$	20 \$	25 \$
GENOMICS - rate per sample				
Sequencing				
Sequencing reactions	7.00 \$	7.50 \$	8.00 \$	12.00 \$
Sequencing reactions (>192 samples)	5.00 \$	6.00 \$	7.00 \$	10.00 \$
Sequencing - difficult template	11.00 \$	12.00 \$	14.00 \$	18.00 \$
Sequencing - BAC extremities	13.00 \$	14.00 \$	16.00 \$	20.00 \$
ABI 3730 sequencer plate read - 96-well	75.00 \$	85.00 \$	100.00 \$	150.00 \$
PCR purification (<25 samples)	3.50 \$	4.00 \$	5.00 \$	6.00 \$
PCR purification (≥25 samples)	2.50 \$	3.00 \$	4.00 \$	5.00 \$
qPCR				
Oligonucleotide design and synthesis	15.00 \$	16.50 \$	18.00 \$	25.00 \$
Standard curves (TaqMan assay validation)	17.50 \$	18.50 \$	20.00 \$	30.00 \$
Reverse transcriptase reaction	10.00 \$	11.25 \$	12.50 \$	15.00 \$
Reverse transcriptase MegaPlex for miRNA	35.00 \$	40.00 \$	45.00 \$	65.00 \$
SYBR green qPCR reaction	1.25 \$	1.40 \$	1.50 \$	2.50 \$
TaqMan probe qPCR reaction	1.50 \$	1.65 \$	1.75 \$	2.75 \$
Low Density Array (ABI) qPCR reaction	0.30 \$	0.35 \$	0.40 \$	0.50 \$
Large scale qPCR reaction	0.90 \$	1.00 \$	1.25 \$	2.00 \$
SYBR green PCR master mix (µl)	0.12 \$	0.15 \$	0.20 \$	0.25 \$
TaqMan PCR master mix (µl)	0.12 \$	0.15 \$	0.20 \$	0.25 \$
Transcriptome amplification	70.00 \$	75.00 \$	80.00 \$	100.00 \$
Real Time PCR plate read	40.00 \$	45.00 \$	50.00 \$	60.00 \$

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Probes				
Universal Probe (Roche) - each probe	0.30 \$	0.40 \$	0.50 \$	n/a
TaqMan Probe - custom design and synthesis	160.00 \$	165.00 \$	175.00 \$	200.00 \$
ABI TaqMan Probe (Gene Expression Assay)	400.00 \$	425.00 \$	450.00 \$	500.00 \$
ABI Low Density Array plate	875.00 \$	885.00 \$	900.00 \$	1,000.00 \$
Genotyping				
PCR reaction	2.00 \$	2.50 \$	3.00 \$	5.00 \$
Fluorescent PCR reaction and read on ABI3730	3.00 \$	3.50 \$	4.00 \$	5.00 \$
TaqMan SNP marker	1.00 \$	1.25 \$	1.50 \$	2.00 \$
Mouse trisomies genotyping (chr 1/8/11/14)	50.00 \$	75.00 \$	100.00 \$	150.00 \$
Other				
96- or 384- plate (each)	7.00 \$	7.50 \$	8.00 \$	10.00 \$
Consultation	60.00 \$	70.00 \$	80.00 \$	125.00 \$
Bisulfite treatment (methylation)	60.00 \$	65.00 \$	75.00 \$	100.00 \$
Bioanalyser_DNA (12 reactions per chip)	50.00 \$	55.00 \$	60.00 \$	100.00 \$
Bioanalyser_RNA (12 reactions per chip)	60.00 \$	65.00 \$	70.00 \$	100.00 \$
MICROARRAYS - rate per sample, EXCLUDING THE COST OF MICROARRAYS				
Expression microarray 385k - full service from RNA	500 \$	555 \$	600 \$	1,200 \$
Expression microarray 385k - full service from ds cDNA	275 \$	315 \$	350 \$	700 \$
ChIP microarray 385k - full service	450 \$	525 \$	575 \$	1,150 \$
CGH microarray 385k - full service	425 \$	480 \$	525 \$	1,050 \$
ChIP microarray 2.1M - full service	500 \$	570 \$	625 \$	1,250 \$
CGH microarray 2.1M - full service	475 \$	530 \$	575 \$	1,150 \$
RT reaction (RNA to ds cDNA)	225 \$	240 \$	250 \$	500 \$
WGA reaction (2 samples)	50 \$	65 \$	75 \$	150 \$
Labelling of ds cDNA or gDNA (per fluorophore)	100 \$	115 \$	125 \$	250 \$
Hybridization and washing	100 \$	115 \$	125 \$	250 \$
Scan and NimbleScan analysis - Expression microarray 385k	75 \$	85 \$	100 \$	200 \$
Scan and NimbleScan analysis - ChIP microarray 385k	100 \$	115 \$	125 \$	250 \$
Scan and NimbleScan analysis - ChIP microarray 2.1M	150 \$	160 \$	175 \$	350 \$
Scan and NimbleScan analysis - CGH microarray 385k	125 \$	135 \$	150 \$	300 \$
Scan and NimbleScan analysis - CGH microarray 2.1M	175 \$	185 \$	200 \$	400 \$
Stripping of a microarray	20 \$	25 \$	30 \$	60 \$
Use of the hybridization chamber (Maui)	15 \$	20 \$	25 \$	n/a
Use of the GenePix4000B scanner - microarray 385k	20 \$	25 \$	30 \$	n/a
Use of the GenePix4000B scanner - microarray 2.1M	40 \$	45 \$	50 \$	n/a
Scientific consultation (per hour)	60 \$	70 \$	80 \$	200 \$
Data analysis (per hour)	60 \$	70 \$	80 \$	200 \$

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HISTOLOGY - rate per slide, 12 slides minimum				
Paraffin				
Circulation and embedding (per cassette)	2.60 \$	3.90 \$	4.70 \$	5.80 \$
Decalcification	1.40 \$	2.10 \$	2.50 \$	2.80 \$
Microtome sections	1.60 \$	2.40 \$	2.90 \$	3.60 \$
Serial sections	1.50 \$	2.30 \$	2.75 \$	3.50 \$
Different level sections	1.80 \$	2.60 \$	3.10 \$	3.80 \$
Deparaffinization	1.00 \$	1.50 \$	1.80 \$	2.20 \$
Basic stain (HE or HPS) and mounting	1.40 \$	2.10 \$	2.50 \$	3.00 \$
<u>Complete service</u> : circulation, embedding, sections, basic stain and mounting	5.60 \$	7.90 \$	9.50 \$	11.85 \$
Frozen Tissue				
Preparation and freezing	1.20 \$	1.80 \$	2.20 \$	2.70 \$
Cryostat sections	2.50 \$	3.75 \$	4.50 \$	5.50 \$
Basic stain (HE or HPS) and mounting	1.20 \$	1.80 \$	2.20 \$	2.70 \$
<u>Complete service</u> : circulation, embedding, sections, basic stain and mounting	4.90 \$	7.35 \$	8.80 \$	10.70 \$
Histological stains				
Alcian blue	3.10 \$	4.50 \$	4.80 \$	5.75 \$
Alizarine red	3.50 \$	4.00 \$	5.00 \$	6.00 \$
Carstairs	8.25 \$	9.50 \$	12.00 \$	14.40 \$
Congo red	5.80 \$	7.00 \$	8.00 \$	9.60 \$
Elastin (Verhoeff)	5.50 \$	6.50 \$	6.50 \$	7.80 \$
Fuschine-aldehyde	4.00 \$	5.80 \$	6.00 \$	7.20 \$
Gomori's trichrome	6.00 \$	8.50 \$	9.00 \$	10.80 \$
Gram	7.00 \$	9.90 \$	10.50 \$	12.60 \$
Groccot	7.00 \$	8.80 \$	9.25 \$	11.10 \$
Iron hematoxylin	6.50 \$	9.10 \$	9.50 \$	11.40 \$
Luxol blue	4.00 \$	5.20 \$	6.00 \$	7.20 \$
Masson's trichrome	6.25 \$	8.40 \$	8.50 \$	10.20 \$
May Grunwald Giemsa	4.50 \$	6.50 \$	7.00 \$	8.40 \$
Metal	6.00 \$	8.50 \$	9.00 \$	10.80 \$
Movatt's	8.25 \$	10.00 \$	12.00 \$	14.40 \$
Mucicarmin	4.50 \$	5.80 \$	6.00 \$	7.20 \$
Nil red	8.75 \$	10.00 \$	12.00 \$	14.40 \$
Nissl	5.00 \$	7.50 \$	8.00 \$	9.60 \$
Oil red O	6.20 \$	8.00 \$	8.80 \$	10.60 \$
PAS	6.00 \$	7.90 \$	8.50 \$	10.20 \$
PAS - BA	5.80 \$	8.20 \$	8.80 \$	10.60 \$
PAS - Diastase	7.00 \$	9.90 \$	10.50 \$	12.60 \$
Reticulin	4.80 \$	6.50 \$	7.00 \$	8.40 \$
Sirius red	5.50 \$	8.10 \$	8.80 \$	10.60 \$
Toluidine blue	4.50 \$	7.50 \$	7.80 \$	9.36 \$
Von Kossa	7.25 \$	8.80 \$	9.50 \$	11.40 \$
Wright	4.50 \$	6.50 \$	7.00 \$	8.40 \$
Zielh	6.00 \$	8.90 \$	9.50 \$	11.40 \$

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Immunohistochemistry				
Sections for immunohistochemistry/FISH	1.75 \$	2.80 \$	3.40 \$	3.50 \$
Primary antibody	2.00-3.50 \$	3.00-4.50 \$	4.00-6.50 \$	5.00-7.50 \$
<u>Paraffin</u> : deparaffinisation, antigen refolding, detection kit, buffers and secondary antibody	23.50 \$	26.80 \$	28.15 \$	29.50 \$
<u>Frozen tissue</u> : antigen refolding, detection kit, buffers and secondary antibody	21.50 \$	24.00 \$	26.00 \$	28.00 \$
Counterstain and mounting	0.50 \$	0.90 \$	1.05 \$	1.20 \$
Amplification kit	4.90 \$	5.20 \$	6.10 \$	7.00 \$
Background block	1.60 \$	2.00 \$	2.25 \$	2.50 \$
Double staining	33.50 \$	38.50 \$	40.25 \$	42.00 \$
FISH	10.50 \$	18.00 \$	21.60 \$	22.80 \$
Tissue Microarray				
Tissue plugs	3.50 \$	5.20 \$	6.25 \$	6.50 \$
Sections	3.00 \$	4.50 \$	5.40 \$	6.00 \$
High resolution digital scans				
Whole microscope slides - 20X	4.00 \$	6.00 \$	7.20 \$	9.00 \$
Whole microscope slides - 40X	9.00 \$	12.00 \$	14.40 \$	18.00 \$
Data storage fee (per GB)*	1.00 \$	1.50 \$	2.00 \$	5.00 \$
Other Services				
Technical assistance (per hour)	45.00 \$	50.00 \$	60.00 \$	65.00 \$
Blood smear	0.50 \$	1.00 \$	1.20 \$	1.80 \$
Radiographs	90.00 \$	100.00 \$	120.00 \$	150.00 \$
Photographs	70.00 \$	90.00 \$	100.00 \$	120.00 \$
Sharpening of blades	25.00 \$	40.00 \$	45.00 \$	50.00 \$
Development of quantitative methodology	45.00 \$	50.00 \$	55.00 \$	60.00 \$
Quantitative analysis	6.50 \$	10.00 \$	12.00 \$	15.00 \$
Anlaysis by a pathologist (per hour)	90.00 \$	120.00 \$	180.00 \$	200.00 \$

*Data must be retrieved by user within 3 months post-acquisition

NMR-BIOPHYSICS - rate per hour

NMR

Sample preparation	40.00 \$	45.00 \$	50.00 \$	125.00 \$
600 MHz Cold Probe - set up	40.00 \$	45.00 \$	50.00 \$	125.00 \$
600 MHz Cold Probe - long runs	2.25 \$	2.40 \$	2.50 \$	125.00 \$
600 MHz Cold Probe - short runs (<24h hr)	14.00 \$	14.50 \$	15.00 \$	125.00 \$
600 MHz Cold Probe - automated procedures	17.50 \$	18.50 \$	20.00 \$	150.00 \$
Data processing	40.00 \$	45.00 \$	50.00 \$	200.00 \$
Data analysis*	80.00 \$	85.00 \$	90.00 \$	200.00 \$
Training - NMR	70.00 \$	75.00 \$	80.00 \$	200.00 \$
Training - analysis, calculations	60.00 \$	70.00 \$	75.00 \$	200.00 \$

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Analytical Ultra-Centrifuge (AUC)				
Start up fee	40.00 \$	45.00 \$	50.00 \$	125.00 \$
Assembly/cleaning	17.50 \$	18.50 \$	20.00 \$	50.00 \$
Sedimentation velocity (~10 hours)	12.50 \$	14.00 \$	15.00 \$	40.00 \$
Sedimentation equilibrium - flat rate (~24-48 h)	400.00 \$	450.00 \$	500.00 \$	1,200.00 \$
Data analysis	60.00 \$	70.00 \$	75.00 \$	200.00 \$
Circular Dichroism (CD)				
Run and basic analysis	40.00 \$	45.00 \$	50.00 \$	125.00 \$
Data analysis	60.00 \$	70.00 \$	75.00 \$	200.00 \$
Training - CD	60.00 \$	70.00 \$	75.00 \$	200.00 \$
Fluorescence				
Run and basic analysis	15.00 \$	18.00 \$	20.00 \$	50.00 \$
Training - AUC	60.00 \$	70.00 \$	75.00 \$	200.00 \$
Biophysics packages				
Basic - AUC, CD, (NMR), (fluorescence)	625 \$	700 \$	750 \$	2,000 \$
Mutant - CD, AUC: altered structure, aggregation state	625 \$	700 \$	750 \$	2,000 \$
Interaction - fluorescence, AUC, CD	1,250 \$	1,400 \$	1,500 \$	4,000 \$
RNA/DNA - base pairing (NMR), Tm (CD)	1,250 \$	1,400 \$	1,500 \$	4,000 \$
Structure - protein expression, labelling, NMR data collection, data analysis and structure determination**	12,500 \$	13,750 \$	15,000 \$	40,000 \$
Computational Linux cluster				
NMR analysis	- \$	- \$	- \$	2.00 \$
Strucutre calculations - ARIA/CYANA	- \$	- \$	- \$	8.00 \$
Strucutre calculations - cns	- \$	- \$	- \$	2.00 \$
Visualisation tools				
Training & analysis	60.00 \$	70.00 \$	75.00 \$	200.00 \$
Movies	60.00 \$	70.00 \$	75.00 \$	200.00 \$

*Fees for avanced analyses are subject to negotiation

**Estimate for a 100 residue protein. Actual fee will be determined on a case per case basis

PROTEOMICS - rate per sample

Sample preparation

Liquid digestion	20 \$	23 \$	25 \$	50 \$
1D or 2D gel + silver staining (<8 samples) (per gel)	75 \$	85 \$	100 \$	200 \$
Destaining (per gel)	20 \$	23 \$	25 \$	50 \$
1D/2D in-gel digestion + peptide extraction	20 \$	23 \$	25 \$	50 \$
Phosphopeptide enrichment	50 \$	55 \$	60 \$	120 \$

Mass spectroscopy

LC-MS or LC-MS/MS	65 \$	75 \$	110 \$	240 \$
Long run LC-MS/MS	95 \$	105 \$	165 \$	360 \$
2D LC-MS/MS (6 sample fractions)	390 \$	450 \$	660 \$	1,440 \$
Exact Mass	45 \$	50 \$	60 \$	120 \$

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Total - liquid digest + LC-MS/MS	85 \$	98 \$	135 \$	290 \$
Total - destain, digest, extraction, LC-MS/MS*	88 \$	101 \$	138 \$	296 \$
Total - gel, destain, digest, extraction, LC-MS/MS*	97 \$	112 \$	151 \$	321 \$

*Price per sample, based on the processing of 8 samples

RECOMBINANT PROTEINS - rate per sample

Subcloning	375 \$	415 \$	450 \$	600 \$
Small-scale expression screening - E.coli	625 \$	690 \$	750 \$	1,000 \$
Large-scale protein production - E.coli	375 \$	415 \$	450 \$	600 \$
Preparation of recombinant BV	1,220 \$	1,340 \$	1,465 \$	1,950 \$
Small-scale insect cell expression test*	565 \$	620 \$	675 \$	900 \$
Large-scale insect cell expression/L*	240 \$	260 \$	285 \$	380 \$
Protein refolding SS	565 \$	620 \$	675 \$	900 \$
Protein purification native	750 \$	825 \$	900 \$	1,200 \$
Protein purification - urea	788 \$	865 \$	945 \$	1,260 \$
Polyclonal protein - Ab immunization	1,250 \$	1,300 \$	1,500 \$	1,900 \$
Antibody purification	525 \$	580 \$	630 \$	840 \$
Anti-protein Ab full service	3,940 \$	4,265 \$	4,725 \$	6,200 \$
Protein production no cloning - E.coli	1,750 \$	1,925 \$	2,100 \$	2,800 \$
protein production with cloning - E.coli	2,125 \$	2,340 \$	2,550 \$	3,400 \$
Protein production with cloning and refold - E.coli	3,125 \$	3,440 \$	3,750 \$	5,000 \$
Insect cell protein production	2,750 \$	3,025 \$	3,300 \$	4,400 \$

*available in 2010

TRANSGENESIS

Pronuclear DNA microinjection

FVB or B6CH3 - generation of mice	2,800 \$	5,150 \$	5,150 \$	13,800 \$
FVB or B6CH3 - analysis of embryos	1,100 \$	2,000 \$	2,000 \$	5,520 \$
C57/BL6 - generation of mice	4,400 \$	5,450 \$	5,450 \$	13,800 \$
C57/BL6 - analysis of embryos	1,800 \$	2,000 \$	2,000 \$	5,520 \$
Use of BAC DNA	4,400 \$	5,450 \$	5,450 \$	13,800 \$

Generation of KO/KI mice

Electroporation and selection of clones	3,900 \$	4,400 \$	4,400 \$	11,800 \$
Second electroporation (neo excision)	1,650 \$	1,800 \$	1,800 \$	6,300 \$
Blastocyst injection of ES clones - C57/BL6	3,000 \$	4,600 \$	4,600 \$	12,400 \$

Cryopreservation

Embryo	1,700 \$	1,900 \$	1,900 \$	5,100 \$
Thaw and reimplantation	550 \$	760 \$	760 \$	2,000 \$

Line rederivation	1,000 \$	1,400 \$	1,400 \$	3,700 \$
MEFs (per vial)	35 \$	45 \$	45 \$	60 \$
Technical assistance (per hour)	40 \$	50 \$	50 \$	65 \$