

CORE FACILITY USER FEES

This document is for researchers to use for grant applications in 2020. In December 2020 fees will be increased by the CPI rate (current rate on June 2019 is 1.6%). Prices listed below are for your 2020 budgets. Please include the CPI increase (recommended 2%) in your budget costs related to the 2021 and 2022 budget. Note from 2021 these will be rounded up to the nearest dollar after the increase has been applied.

Fees have been calculated using a cost recovery method, and are intended to offset the cost of operating the facilities. This cost recovery model will ensure continued investment into these facilities, bringing researchers at Westmead world class technology to conduct their research.

FEES

FLOW CYTOMETRY CORE FACILITY

The Flow Cytometry Core Facility is co-located at WIMR and CMRI.

EQUIPMENT/SERVICES	NON-ASSISTED	OPERATOR ASSISTED
Cell Sorters	\$50.80 per hour	\$77.72 per hour
Cell Sorter Setup	-	\$77.72 per order
Analysers – Simple	\$20.73 per hour	\$72.54 per hour
Analysers - Intermediate	\$31.09 per hour	\$82.91 per hour
Analysers - Complex	\$41.45 per hour	\$93.27 per hour
AutoMACS Pro	\$20.73 per hour	\$72.54 per hour
GentleMACS	\$5.18 per hour	\$57.00 per hour
Assistance/Service	-	\$51.82 per hour
Training – Initial	-	\$207.26 all instruments
Training – Cell Sorting	-	\$406.40 AriaIII autonomous sorting
Analysis PC/MAC	\$1.00 per hour	\$52.82 per hour
Multiplex Cytokine Testing	-	\$58 per sample*
3D Printing	\$ material cost*	\$51.82 per hour (designing)
Experimental assistance (experiment design, acquisition, analysis)	-	\$51.82 per hour
FlowJo Site License	\$100 per Quarter*	

Note: consumables are not included.

* Price subject to change depending on supply charge.

EQUIPMENT	TYPE	LOCATION
Canto A	Analyser - Simple	CMRI
Cantoll	Analyser - Intermediate	WIMR
Fortessa	Analyser - Complex	WIMR
LSRII	Analyser - Complex	WIMR
AriaIII	Sorter - Simple	WIMR
Influx	Sorter - Complex	WIMR
AutoMACS	Cell Separator	WIMR
GentleMACS	Tissue Dissociator	WIMR

Notes

Researchers can be trained on Analysers: Full training includes theory, instrument operation and data analysis. Subsequent trainings are for instruments only. Cell Sorting services are provided by facility staff.

CONTACT DETAILS

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CELL IMAGING CORE FACILITY

The Cell Imaging Core Facility is located at WIMR.

EQUIPMENT	NON-ASSISTED	OPERATOR ASSISTED
Image Analysis Computers*	Peak: \$12.44 per hour	
	Off peak: \$3.25 per hour	
Intermediate Microscopes	\$31.09 per hour	\$82.91 per hour
Advanced Microscopes	\$41.45 per hour	\$93.27 per hour
Assistance	-	\$51.82 per hour
Transmission to EM Service	-	Quoted per service
Training	-	\$259.08 Advanced training package (includes a minimum of 5 hours of training per user per Advanced Microscope)
Training	-	\$103.63 Intermediate training package (includes a minimum of 2 hours of training per user per Intermediate Microscope)
Subscription – 10% discount**	\$2,000-\$2,499	
Subscription – 20% discount**	\$2,500-\$4,999	
Subscription – 30% discount**	\$5,000-\$9,999	
Subscription – 50% discount**	\$10,000 and higher	

* Peak: 9am-5pm Mon-Fri

** Prepaid subscription (valid for 12-month) is for individual researchers to access multiple imaging equipment until subscription amount is used up.

EQUIPMENT	TYPE
NanoImager	Advanced Microscope
Confocals (Olympus FV1000 & Leica SP5/CLEM)	Advanced Microscope
Deltavision Elite Deconvolution Fluorescence Microscopy	Advanced Microscope
NanoImager (Super Resolution)	Advanced Microscope
Zeiss Live Cell Imaging	Intermediate Microscope
Laser Capture Microdissection	Intermediate Microscope
Nuance Multispectral Imaging System	Intermediate Microscope
Olympus Bx53/DP80 Fluorescence microscope	Intermediate Microscope

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CMRI ADVANCED MICROSCOPY CENTRE

The Advanced Microscopy Centre is located at CMRI

EQUIPMENT/SERVICE/PROCESS/TECHNIQUE (TO BE CHARGED)	COST (NON-ASSISTED)	COST (ASSISTED)	PRICING
LSM 880 Airyscan	\$40.80 per hour	\$93.80 per hour	Normal Hours
Cell Observer SD	\$40.80 per hour	\$93.80 per hour	Normal Hours
Lightsheet Z.1	\$40.80 per hour	\$93.80 per hour	Normal Hours
dSTORM Super-resolution	\$40.80 per hour	\$93.80 per hour	Normal Hours
Metafer Alpha	\$30.60 per hour	\$83.60 per hour	Normal Hours
Metafer Beta	\$30.60 per hour	\$83.60 per hour	Normal Hours
Cell Observer Widefield	\$15.00 per hour	\$68.00 per hour	Normal Hours
Cell Voyager	\$15.00 per hour	\$68.00 per hour	Normal Hours
SteREO Lumar	\$15.00 per hour	\$68.00 per hour	Normal Hours
Axio Imager Alpha	\$15.00 per hour	\$68.00 per hour	Normal Hours
Axio Imager Beta	\$15.00 per hour	\$68.00 per hour	Normal Hours
Imaris or Imaris Stitcher Usage	\$5.40 per hour	\$58.40 per hour	24 hours
Image Analysis Computer Usage	\$2.40 per hour	\$55.40 per hour	24 hours
Training	n/a	\$53.00 per hour	Normal Hours
Prepaid Lab Plan20 – 20% Discount	\$2,500.00	n/a	24 hours
Prepaid Lab Plan30 – 30% Discount	\$5,000.00	n/a	24 hours
Prepaid Lab Plan50 – 50% Discount	\$10,000.00	n/a	24 hours
Training - Sample Clearing/Staining for 1	n/a	\$210.00 per person	Normal Hours
Training - Sample Clearing/Staining for 2	n/a	\$300.00 2 persons	Normal Hours
Training - Sample Clearing/Staining for 3	n/a	\$390.00 3 persons	Normal Hours
Training - Antibody Staining (per person)	n/a	\$160.00 per person	Normal Hours
Training - Sample Clearing (per person)	n/a	\$160.00 per person	Normal Hours

CONTACT DETAILS

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ELECTRON MICROSCOPY CORE FACILITY

The Electron Microscopy Core Facility is located in the ICPMR building of the Westmead Hospital.

EQUIPMENT	NON-ASSISTED	OPERATOR ASSISTED
Electron Microscope	\$41.45 per hour	\$93.27 per hour
Training – Electron Microscope (Basic)	-	\$103.63 per hour
Assistance/Service/ Training - Other	-	\$51.82 per hour
Ultramicrotome	\$20.73 per hour	\$72.54 per hour
Cryo-ultramicrotome	\$31.09 per hour	\$82.91 per hour
Carbon Coater	\$10.36 per hour	\$62.18 per hour
Vitrobot	\$41.45 per hour	\$93.27 per hour

CONTACT DETAILS

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EQUIPMENT	TYPE
FEI Tecnai 20 TWIN200kV TEM	Transmission Electron Microscope
TEM_JEOL JEM_1400 Plus 120kV TEM	Transmission Electron Microscope
Hitachi HT7800 120kV TEM	Transmission Electron Microscope
Leica UC7 / FC7	Cryo-Ultramicrotome
Leica UC6	Ultramicrotome
Leica UCT	Ultramicrotome
HHV BT150 Carbon Coater	Carbon Coater
FEI Vitrobot	Plunge Freezing Device

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PROCESS / TECHNIQUE	SERVICE CHARGE
Manual process aldehyde fixed cells / tissues(max 6 samples / six blocks per sample) to epoxy resin	\$103.63
Auto process (up to 16 samples / 6 blocks per sample) aldehyde fixed cells / tissues to epoxy resin	\$51.82
Manual process aldehyde fixed cells / tissue (max 6 samples / six blocks per sample) to acrylic resin	\$103.63
Ultramicrotomy of resin embedded tissue /hr	\$51.82
Fix and process one (1) sample / 4 blocks aldehyde fixed cells / tissue for Tokuyasu technique	\$77.72
Cryo-ultramicrotomy (Tokuyasu technique) 1 block, up to 12 grids	\$155.45
Cryo-fixation of cell monolayers on sapphire discs by HPF (max 10 discs)	\$103.63
Process cell monolayers on sapphire discs by FS / LT embedding for immunolabelling (max 10 discs)	\$103.63
Process cell monolayers on sapphire discs from HPF using FS / LT embedding + TAMOI for morphology / tomography	\$466.34
On-section immunogold labelling using Leica IGL (researcher supplies slides, 1° & 2° antibodies)	\$77.72
Fix and process cells/tissue blocks for Scanning Electron Microscopy	\$51.82
Fix and process cells/tissue blocks for Serial Block Face SEM	\$207.26
Negative Stain	\$25.91
Grid film coating (formvar, pioloform)	\$25.91

✘ Cost estimate only, dependent upon substrates employed

Note: These costs are for assisted processing only and do not include microscope time and consumable cost.

Notes

Fixed fee for Electron Microscopy training includes training to a proficient level of basic techniques. Supplementary training or training on advanced techniques is charged per hour. Training on other instruments is also charged per hour.

GENOMICS CORE FACILITY

The Genomics Core Facility is located at WIMR.

EQUIPMENT	NON-ASSISTED	OPERATOR ASSISTED
Genomics equipment	\$25.91 per hour	\$77.72 per hour
QX200 Digital Droplet PCR System	\$30 per hour	\$81.82 per hour
Training – equipment	-	\$103.63 per hour
Assistance/Service	-	\$51.82 per hour

CONTACT DETAILS

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EQUIPMENT	TYPE
Bioanalyzer 2100	Microfluidic electrophoresis system
Tapestation 4200	Microfluidic electrophoresis system
Nanostring nCounter PrepStation	Robotic liquid handling
Nanostring nCounter Digital Analyzer	High resolution microscope
Digital PCR Droplet Generator	Digital PCR Droplet Generator
QX200 Digital PCR Droplet Reader	Digital PCR Droplet Reader
C1000 Thermocycler	Thermocycler
Covaris Evolution	Ultrasonicator

SERVICE	SERVICE CHARGE
Bioanalyzer 12 samples per run	\$112.27 per run
Tapestation (standard tape for DNA/RNA)	\$8.84 per sample
Tapestation (high sensitivity tape for DNA/RNA)	\$10.77 per sample
Next Gen Sequencing Library Preparation**	\$51.82 per hour*
Nanostring Gene Expression (Standard scan) 12 samples per cartridge	\$207.26 per cartridge*
Nanostring Gene Expression (High sensitivity scan) 12 samples per cartridge	\$259.08 per cartridge*
Nanostring miRNA Expression (Standard scan) 12 samples per cartridge	\$336.80 per cartridge*
Nanostring miRNA Expression (High sensitivity scan) 12 samples per cartridge	\$466.34 per cartridge*
STR Cell Line Authentication (without DNA extraction)	\$40.34 per sample
STR Cell Line Authentication (with DNA extraction)	\$51.41 per sample
STR Cell Line Authentication on demand (without DNA extraction)	\$70.82 per sample
STR Cell Line Authentication on demand (with DNA extraction)	\$81.89 per sample
STR Cell Line Authentication data analysis	\$10.16 per sample

Notes

* NOT including consumables

** Cost is dependent on project requirements and aims. Please see Genomics Advanced Specialist for project specific pricing.

BIOMEDICAL PROTEOMICS CORE FACILITY

The Biomedical Proteomics Core Facility is located at CMRI

Equipment/Service/Process/Technique (to be charged)	Type/Description (provide additional details if needed)	Cost (Non-Assisted)	Cost (Assisted)
Consultation	Assessment of Feasibility and Experimental Design		\$150.00 per hour
Technical Assistance	Assistance with Equipment Use and Troubleshooting		\$60.00 per hour
Training	Introductory Training Course, 3 days, Total of 18 hours		\$1,800.00 per person
Training	Advanced Training, Staged Sessions, Total of 18 hours		\$2,400.00 per person
Protein/Peptide ID by LC-MS/MS	Sample Preparation, Data Acquisition, Basic Analysis		\$120.00 per sample
Sample Preparation by LC	Off-line HPLC, Sample Fractionation and Clean Up		\$600.00 per sample
PhosphoProteomics	Sample Preparation, Data Acquisition, Basic Analysis		\$1,200.00 per sample
Quantitative Proteomics	DIA/SWATH Workflow: Sample Preparation, Data Acquisition, Basic Analysis		\$750.00 per sample
Quantitative Proteomics	TMT10 Workflow: Sample Preparation, Data Acquisition, Basic Analysis		\$3,000.00 10 samples
Panel Screening / MRM	Assay development, Sample Preparation, Data Acquisition and Basic Analysis		\$3,000.00 1-10 proteins
Panel Screening / MRM	Existing assay, Sample Preparation Data Acquisition and Basic Analysis		\$150.00 per sample
Daily Access to Sample Preparation Laboratory	Laboratory Bench Rental - Casual Use	\$1.00 per hour	
Annual Access to Sample Preparation Laboratory	Laboratory Bench Rental - Subscription	\$2,000.00 per year	
Daily Access to Data Laboratory	Computer Workstation Rental - Casual Use	\$1.00 per hour	
Annual Access to Data Laboratory	Computer Workstation Rental - Subscription	\$2,000.00 per year	
Annual User Subscription to Proteomics Server Farm	Annual Proteomics Server Access - Subscription (single login account per research group)	\$5,000.00 per year	
Quarterly User Subscription to Proteomics Server Farm	Quarterly Proteomics Server Access - Subscription (single login account per research group)	\$1,250.00 per quarter	
Multiple User Subscription to Proteomics Server Farm	Add Additional Users to Existing Subscription (multiple log-in accounts per research group)	\$250.00 additional user	
Daily Access to Instrument Laboratory	Mass Spectrometer Rental - Casual Use	\$10.00/ inst per hour	
Annual Access to Instrument Laboratory	Mass Spectrometer Rental - Subscription (payment for 1,000 hours for \$8,000)	\$8,000.00/ inst per subscription	

CONTACT DETAILS

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PROTEOMICS CORE FACILITY WIMR

The following equipment is located at WIMR

EQUIPMENT	NON-ASSISTED	OPERATOR ASSISTED
AKTA Pure	\$5.18 per hour	\$20.73 per hour
Assistance/Service	-	\$51.82 per hour
AKTA Training		\$103.63 per hour

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BIOINFORMATICS CORE SERVICE

The bioinformatics core is located at WIMR.

Service	OPERATOR ASSISTED
Informatics	\$51.82 per hour
Training (computational/analysis)	\$103.63 per hour
Design/manuscript/grant assistance	\$51.82 per hour after first consult

CONTACT DETAILS

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Biospecimen Processing Services

SERVICE	DESCRIPTION	SERVICE CHARGE
Specimen Receipt*^	Biobank staff pick-up from clinical collection point on campus	\$16.76 per donor
	Delivered to WIMR by courier	\$12.70 per donor
	Delivered to Biobank lab in person	\$4.27 per donor
Blood Processing	Blood fraction aliquots: whole blood per buffy coat per plasma per serum	\$2.54 per vial
	Blood spot card	\$5.08 per card
Histology Services	Cryosectioning	\$51.82 per hour
	Tissue microarray (TMA) construction	\$51.82 per hour
	FFPE sectioning (first slides)	\$10.16 per slide
	FFPE sectioning (subsequent slides)	\$3.56 per slide
DNA Extraction#5	Blood – Manual (Mini kit)	\$10.16 per sample
	Blood – Manual (Midi kit)	\$12.70 per sample
	Blood – Manual (Maxi kit)	\$16.26 per sample
DNA Quantitation5	Qubit™ (< 30 samples)	\$2.03 per sample
	PicoGreen® (≥ 30 samples)	\$0.97 per sample

* Biobank staff are on-call to receive specimens from 8:30 AM to 5:00 PM, Monday – Friday. Special arrangements may be made for after-hours specimen receipt.

^ Specimen receipt services include recording of sample tracking data and log of receipts.

QIAGEN blood DNA extraction kits are used for the standard service.

Custom extraction services can be arranged for different kits or sample types.

Biobank Storage Facility

Storage space within the Westmead Biobank storage facilities can be rented on an annual basis. The facility is inventory managed by Biobank staff and samples are stored and retrieved on a cost/hour basis.

FACILITY / SERVICE	DESCRIPTION	COST
-80°C Freezer	SBS box format – 1 tray (≤ 7 boxes; 672 vials)	\$121.92 / tray / year
	SBS box format – 1 rack (≤ 42 boxes; 4,032 vials)	\$406.40 / rack / year
	SBS box format – 1 shelf (≤ 294 boxes; 28,224 vials)	\$1,828.80 / shelf / year
	2" box format – 1 tray (≤ 5 boxes; 500 vials)	\$121.92 / tray / year
	2" box format – 1 rack (≤ 25 boxes; 2,500 vials)	\$406.40 / rack / year
	2" box format – 1 shelf (≤ 175 boxes; 17,500 vials)	\$1,828.80 / shelf / year
LN ₂ vapour phase tank	2" box format – 1 box (≤ 100 vials)	\$40.64 / box / year
	2" box format – 1 rack (≤ 12 boxes)	\$406.40 / rack / year
Controlled ambient	Slide cabinet – 1 drawer (≤ 380 slides)	\$25.40 / drawer / year
	FFPE blocks – 1 drawer (≤ 280 blocks)	\$20.32 / drawer / year
	Blood spot cards – 1 box (≤ 100 cards)	\$5.08 / box / year
Storage service#	Specimen storage and inventory update	\$12.95 / ¼ hour
	Specimen retrieval and inventory update	\$12.95 / ¼ hour
Shipping	Coordination of dispatch or receipt of samples by courier	\$12.95 / ¼ hour + courier charge

The charge for storage/retrieval of specimens into/out of the biobank storage facility is waived when booked in conjunction with biobank processing services

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Biobank Equipment

EQUIPMENT	COST
EpMotion 5075 – Booking	\$20.32 / hour
Qubit Fluorometer – Booking	Consumable cost only
Training	\$103.63 / hour

APPENDIX - CONSUMABLES

The cost may vary depending on purchase price.

Electron Microscopy

PROCESS / TECHNIQUE	CONSUMABLES ONLY
Manual process aldehyde fixed cells / tissues(max 6 samples / six blocks per sample) to epoxy resin	\$21
Auto process (up to 16 samples / 6 blocks per sample) aldehyde fixed cells / tissues to epoxy resin	\$50
Manual process aldehyde fixed cells / tissue (max 6 samples / six blocks per sample) to acrylic resin	\$17.50
Fix and process one (1) sample / 4 blocks aldehyde fixed cells / tissue for Tokuyasu technique	\$15
Supply sapphire discs 1.4mm for cell monolayer culture / HPF -each	\$6.50
Supply sapphire discs 3mm for cell monolayer culture / HPF -each	\$5.30
Supply sapphire discs 3mm gridded for cell monolayer culture / HPF -each	\$20
Supply sapphire discs 6mm for cell monolayer culture / HPF -each	\$11.20
Supply MatTek gridded dishes	\$8.50
Supply MatTek glass bottom culture plates	\$20.80
Supply Nunc glass base dish 12mm	\$14
Supply specialist micro-biopsy needle / 5 carriers for HPF of tissue	\$35
Supply silicon wafer, Type P,dia. 4"	\$93
Cryo-fixation of cell monolayers on sapphire discs by HPF (max 10 discs)	\$50
Process cell monolayers on sapphire discs by FS / LT embedding for immunolabelling (max 10 discs)	\$120
Process cell monolayers on Thermanox by modified FS / LT embedding for immunolabelling (max 16)	\$80
On-section immunogold labelling using Leica IGL (researcher supplies slides, 1° & 2° antibodies)	\$38
Fix and process cells/tissue blocks for Scanning Electron Microscopy	\$15
Fix and process cells/tissue blocks for Serial Block Face SEM	\$60
Negative Stain	\$5
Grid film coating (formvar, pioloform)	\$5
Supply 200 mesh carbon coated grids (each)	\$4.25
Supply 200 mesh alpha numeric finder nickel grids (each)	\$0.89
Supply 200 mesh copper grid (vial/100)	\$37
Supply 200 mesh finder nickel grids (each)	\$0.95
Supply 200 mesh hexagonal nickel grids (vial/100)	\$47
Supply 300 mesh thin bar hexagonal copper (vial/100)	\$71
Supply 300 mesh carbon coated copper grids (each)	\$3.40
Supply 400 mesh hexagonal copper grids (vial/100)	\$36
Supply 400 mesh square copper grids (vial/100)	\$36
Supply 400 mesh formvar carbon coated hexagonal copper grids (each)	\$2.50
Supply single slot formvar carbon coated copper grids (each)	\$4.15
Supply single slot copper grids (vial/100)	\$42.20
Supply 3 slot copper grid (vial/100)	\$48
Supply grid storage box	\$27
Supply mounting cylinders	\$0.90
Supply Quantifoil R3.5/1 copper 400 mesh grids (each)	\$16.40
Supply Lacey carbon film 300 mesh copper grids (each)	\$5.48
Supply Lacey formvar carbon film 300 mesh copper grids (each)	\$4.56

✘ Cost estimate only, dependent upon substrates employed

Genomics

PROCESS / TECHNIQUE	CONSUMABLES
10x Genomics Single cell hashtag and CITE-seq	\$25/2ug aliquot anti-human B2M APC \$25/2ug aliquot anti-human CD298 PE \$12/50ml aliquot cell stain buffer \$12.20/reaction CITE-seq PCR reagents \$12.20/reaction Hashtag PCR reagents \$2.80/reaction Human Trustain FxX \$35/0.25ug test Totalseq A Hashtag antibody
Covaris Evolution Ultrasonicator	\$12.00 per microtube
Tapestation Standard DNA/RNA Tape	\$4.60 per sample
Tapestation High Sensitivity DNA/RNA Tape	\$6.50 per sample
Next Gen Sequencing Library Preparation	\$0.08 per ul Ampure XP beads \$0.06 per ul Jetseq beads \$2.00 per sample Jetseq qPCR reagents \$5.00 per sample Nextera XT indexes \$0.80 per sample Picogreen reagents \$15 per sample Superscript II RT
Digital PCR	\$38 per cartridge (8 samples per cartridge)

Biobank

ITEM DESCRIPTION	CONSUMABLES
0.5mL FluidX 2D barcoded cryovials	\$0.80 ea.
Box of 0.5mL FluidX 2D barcoded cryovials (SBS format box with 96 vials)	\$76.80 ea.
3.0mL FluidX 2D barcoded tissue vials	\$2.80 ea.
Box of 3mL FluidX 2D barcoded tissue vials (SBS format box with 24 vials)	\$67.20 ea.
epMotion Reservoir 30ml/100ml	\$5.20 ea.
epTIPS filter tips, PCR clean, 300µL/1000uL	\$0.28 ea.
Qubit dsDNA BR assay	\$2.00 per sample
Qubit dsDNA HS assay	\$2.00 per sample
DNA extraction – general consumables	\$1.50 per sample
TMA recipient block Unitma 10x12 matrix 1mm cores	\$61.50 ea.

- FluidX 2D barcoded cryovials are designed for the high-density 'SBS' storage format and are automation compatible
- epMotion consumables are for purchase when booking the epMotion liquid handler
- DNA/RNA extraction kits can also be ordered based on service requirements

Advanced Microscopy

ITEM DESCRIPTION	CONSUMABLES
Coverglass 13 mm round No. 1.5H (pk/100)	\$19.50 per pack
Coverglass 18 mm round No. 1.5H (pk/100)	\$24.00 per pack
Coverglass 18x18 mm No. 1.5H (pk/100)	\$12.00 per pack
Coverglass 22x22 mm No. 1.5H (pk/100)	\$14.00 per pack
Coverglass 24x50 mm No. 1.5H (pk/100)	\$18.00 per pack
Glass bottom plates 6-well 14mm dia. No. 1.5	\$30.00 each
Glass bottom plates 12-well 14mm dia. No. 1.5	\$40.00 each
Glass multiwell plate cover	\$25.00 each
Lightsheet Consumables Black Plunger (Size 2)	\$25.00 each
Lightsheet Consumables Black Pack 2+20 (Size 2)	\$65.00 per pack
Lightsheet Consumables Black Pack 5+50 (Size 2)	\$160.00 per pack
Electron Microscopy Assistance	\$52.00 per hour

APPENDIX - INCORPORATING THESE FEES INTO YOUR GRANT APPLICATIONS

ESTIMATING COSTS FOR BUDGET REQUESTS

The NHMRC requires detailed costings in their budgets; for example, numbers of samples, estimated analysis hours and justification of why the characterisation techniques are required for the project. To help plan your budget request, using the fees recommended in this document, we provide the following example.

Example:

The project requires access to an advanced microscope for one sample per week, at 4 hours per sample, for 45 weeks in Year 1.

$1 \times 4 \times 45 = 180$ - therefore 180hrs of beam time is required.

Advanced microscope fees are \$40 per hour if operated by a user

$180 \times 40 = 7200$ - therefore for Year 1, a total cost of \$7,200 will need to be included.

N.B. For estimates on the average number of samples per hour, please consult the appropriate Core Facility Manager.

JUSTIFYING BUDGET REQUESTS

The following wording can be used in your application to justify the funding request:

“This research project requires the examination of *N* samples per *week/month/year [as appropriate]* with the advanced *microscopy and/or microanalysis [as appropriate] technique/s of [specify; e.g. atom probe tomography]*. The estimated time required for characterisation of each sample is *X* hours, at a cost of \$40 per hour of instrument time.”

You should also add further specific explanation of why the chosen microscopy technique/s is/are necessary for the research.