

Summary of Core Facilities at Li Ka Shing Institute of Health Sciences (LiHS), CUHK

(Last Update on 12 October 2016)

Scope of Service	Name of Equipment	Location at LiHS of CUHK	Type of Analysis	Type of Service	Service Rate for HKSTP Users (HKD)
Transfection	Amaxa Nucleofactor II	504	Delivers the specifically optimized electrical parameters through a series of preset programs and specially developed reagents	Transfection (Self Service, reagent and labour not included)	500 / day
Gene Expression Profiling, Analysis & Genotyping	Illumina iScan System	505	Beadchip based genetic analysis assays for genotyping, CNV analysis, DNA methylation and gene expression profiling	Infinium beadchips, Expression beadchips and Custom beadships	Pricing will depend on sample size; official quotation will be prepared upon request.
Stem Cell Culturing Service	Human Stem Cell Culturing Facility	804	Cell expansion and differentiation	General culturing facility (Self Service)	750 / hour
				Aseptic culturing facility (Self Service)	2940 / hour
				Block-rate for HKSTP Users: <ul style="list-style-type: none"> • \$1.5 million for unlimited use of designated aseptic culturing facility for 12 months (during office hours on working days) • Users can access general culturing facility as appropriate 	

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Summary of Core Facilities at Campus RRSS, CUHK

(Last Update on 13 October 2016)

Scope of Service	Name of Equipment	Location at RRSS of CUHK	Type of Analysis	Type of Service	Service Rate for HKSTP Users (HKD)
Genome sequencing	Roche GS Titanium	LG211	Shotgun pyrosequencing	Throughput: 400Mbp PTP: Sample QC, library preparation, enrichment titration, sequencing run, data QC, data assembly & delivery	Ask for a quote
			Amplicon pyrosequencing	Throughput: 400Mbp PTP: Sample QC, library preparation, enrichment titration, sequencing run, data QC, data assembly & delivery	Ask for a quote
			Transcriptome pyrosequencing	Throughput: 400Mbp PTP: Sample QC, library preparation, enrichment titration, sequencing run, data QC, data assembly & delivery	Ask for a quote
			Long paired end shotgun pyrosequencing	Throughput: 400Mbp PTP: Sample QC, library preparation, enrichment titration, sequencing run, data QC, data assembly & delivery	Ask for a quote
			Small RNA pyrosequencing	Throughput: 400Mbp PTP: Sample QC, library preparation, enrichment titration, sequencing run, data QC, data assembly & delivery	Ask for a quote

Summary of Core Facilities at Campus RRSS, CUHK

(Last Update on 13 October 2016)

Scope of Service	Name of Equipment	Location at RRSS of CUHK	Type of Analysis	Type of Service	Service Rate for HKSTP Users (HKD)
Particle size analyser	Beckman Multisizer 3	LG211	Provide size and volume distributions in number, volume, surface area and mass, with an overall range of 0.4 μ m-1200 μ m	Particle size analysis (Rental of machine, reagent and labour included)	400 / day
Random DNA fragments generation	Genemachines HydroShear	LG211	DNA at any concentration in volumes as small as 40 μ l can be randomly fractured to within a two-fold size distribution	Random DNA fragments generation (Rental of workstation, labour included)	250 / half day session
Multiple biological samples disruption	Qiagen TissuesLyser	LG211	Disrupts multiple biological samples through high-speed shaking in plastic tubes with steel, tungsten carbide, or glass beads	Sample disruption (Rental of workstation, labour included)	250 / half day session
Microarray scanner	NimbleGen MS 200 Microarray Scanner	LG211	Microarray scanning	Comparative genomic hybridization (CGH), Chromatin ImmunoPrecipitation-on-chip (ChIP-chip), DNA methylation, and Gene expression	Ask for a quote

Contact: Rachel Xing (Tel: 39431389; Email: rachexing@cuhk.edu.hk)

Service hour: Mon-Fri 9:00am - 5:30pm (Equipments are operated by research assistant and scientific officer, unless otherwise stated.)

Core Facilities at Department of Chemistry, CUHK

Scope of Service	Name of Equipment	Type of Analysis	Type of Service	Service Rate for HKSTP Users (HKD)
Analysis of physical chemistry	NMR Spectrometer	Study magnetic properties of paramagnetic inorganic compounds	Physical chemistry analysis (Including all necessary solvents)	250/sample (Proton) 600/sample (Carbon 13)

Contact: Ms. Sarah Ng (Tel: 39436160; Email: sarahng@cuhk.edu.hk)

Schedule 1

Summary of Facilities and Equipment (with service rates of the equipment) of BioCRF for sharing with HKSTPC and its partner companies

	Equipment	Charges	
Biochemical analysis	Bio-Plex multiplex analyzer	\$6,000/run	
	Fast protein liquid chromatography	\$640/hr	
	Isothermal titration calorimeter	\$640/hr	
	ProteomeLab protein characterization system	\$2,000/run	
Cell Biology	Automated cell counter	\$600/hr	
	Electroporation system	\$600/hr	
	Flow cytometry (FACS Aria, Influx)	\$720/hr, \$760/hr	
	OmniLog incubator reader	\$600/hr	
	Patch-clamp system	\$5,100/day	
General Research	Centrifuges (CR7, High-speed, ultracentrifuge, bench-top ultracentrifuge)	\$600/hr	
	ChemiDoc imaging system	\$600/hr	
	EnVision® multilabel reader	\$600/hr	
	DNA size selection system (BluePippin, Sage ELF, and Pippin Pulse)	\$600/hr	
	Luminometer	\$600/hr	
	Micropipette Puller	\$600/hr	
	Odyssey infrared imaging system	\$740/hr	
	Osmometer	\$600/hr	
	Typhoon TRIO system	\$740/hr	
Microscopy	Atomic force microscope (1) Confocal (2) AFM on Catalyst (3) AFM on Multi-mode (4) Confocal + AFM	(1) \$920/hr (2) \$740/hr (3) \$740/hr (4) \$1,100/hr	
	Fluorescence Microscope	\$600/hr	
	Laser scanning confocal microscope (LSM 710)	\$920/hr	
	Live cell observation station & HT Live Imaging System	\$600/hr	
	Spinning disk confocal microscope	\$920/hr	
	STED Microscope (1) Confocal (2) STED/MP (3) STED/MP + confocal	(1) \$920/hr (2) \$1,440/hr (3) \$1,780/hr	
	Stereology system	\$600/hr	
	TIRF Microscopy	\$560/hr	
	Molecular Biology	Bioanalyzer (11 samples/ chip) (1) DNA 7500/12,000 (2) High sensitivity DNA (3) RNA 6000 Pico Kit	(1) \$1,027/ chip (2) \$1,563/ chip (3) \$1,314/ chip
		Covaris focused-ultrasonicator	\$600/hr
NanoDrop fluorospectrometer		\$600/hr	
Next generation sequencing (Illumina & Pacific Biosciences)		Please Enquire	
Real-time PCR (96- & 384 wells)		\$600/hr	
Mass Spectrometry		Full service for Protein Identification (w/ sample preparation)	\$1,096/ sample
		Protein Identification (w/o sample preparation)	\$512/ sample
	Mass Determination	\$615/ sample	
	Liquid Chromatography Mass Spectrometry (80 mins LC run, CID)	\$881/sample	
Software	Offline analysis (Metamorph, Imaris, Zen, LAS AF, Xcalibur)	\$600/hr	
Tissue analysis	Histopathology system (1) Tissue Processor (2) Embedding (3) Leica Cryostat/ Thermo CryoStar NX70 Cryostat	(1) \$800/run (2) \$720/hr (3) \$360/hr	
	Vibratome tissue sectioning equipment (V3000 or Leica VT1200S)	\$620/hr	