

Bangalore Bioinnovation Centre

Equipment List

Microscopy Facility

Equipment	Company	Description	Quantity
Confocal	Nikon	Nikon Laser Scanning Confocal microscope model C2 with spectral facility	1
Inverted fluorescence	Nikon	Inverted Microscope Eclipse Ti U main body (100-240 V) equipped with Left/Right side ports. Intermediate magnification charger 1.5X, coaxial coarse/fine focus/tension adjustment on coarse, and focus on coarse, laser safety interlock signal output. Light distribution:100 Eyepiece, 100 Left, 100 Right	1

Histology Facility

Equipment	Company	Description	Quantity
Microtome	Leica	Leica Semi motorised microtome	1
Vibratome	Leica	Leica vibrotome model with motorised sectioning with chiller support	1
Cryostat	Leica	Leica cryostat	1
Paraffin embedding system	Leica	Leica Tissue embedder with cold and hot plates	1
Slide stainer	Leica	Leica slide stainer	1

Proteomics Facility and Small Molecule Analysis Lab

Equipment	Company	Description	Quantity
Avant FPLC	GE	Chromatography system AKTA Avant 25 user kit	1
FPLC explorer	Bio-rad	788-0003 NGCTM Quest	1
LC-MS	Shimadzu	LCMS-2020 Single Quardupole Mass Spectrometer	1

Prep/Analytical HPLC	shimadzu	Shimadzu promonence LC-20 AP preparative HPLC system with Fraction collector	1
HPLC system	Waters	176801000 Alliance HPLC Systems with 176248901 2489 UV/Visible Detector, 186247500 2475 Fluorescence Detector (blue) and 205001128 Kit, Detector, Aux Tray w/Bracket	1
LC Automated System	Waters	176003057 Prep 150Q LC Automated System w/PDA	1
Protein Analysis	Waters	Nano Differential Scanning Calorimeter with Platinum Capillary Cells; includes calorimeter assembly	1
Protein Analysis	Waters	Nano Isothermal Titration Calorimeter Low Volume Gold: Nano ITC Low Volume System	1
microplate reader	Perkin elmer	2300-0000 EnSpire Base Unit; 2301-0130 Label Free Tech	1
microplate reader	Molecular devices	M5e-ACAD SpectraMax M5e Multi-Detection Reader.	1
microplate reader	Molecular devices	Spectra Max L – Spectra Max L Luminescence Microplate Reader	1
microplate washer	Molecular devices	Aquamax 2000 Bundle – Aquamax 2000 Base Unit	1
Spectrophotometer	biorad	SmartSpec Plus Spectrophotometer	1
Multiplex immuno assay system	Biorad	171000203 Bio-Plex Suspension Array System 200, 100-240V	1

Fermentation Facility			
Equipment	Company	Description	Quantity
Fermentors	Applicon	Z4AEZ0015M Bundle autoclave 15L Microbial ez 230V	1
		Z4AEZ0005C Bundle autocl. 5L cell ez 230V with Accessories	1
		Z4AEZ0002C 2L Cell culture vessel with Head plate fitted motors+ sensor and all accessories	1
	Sartorius	BIOSTAT B Twin MO -One 5L UniVessel	1
	Sartorius	BIOSTAT B Twin MO 10L UniVessel	1
Microbiology facility			
Equipment	Company	Description	Quantity
Shakers	Eppendorf	M1324-0006 I26R Stackable Incubator Shaker with Refrigeration, 1 in (2.5 cm) Orbit, 230V, 50Hz	1
Shakers	Eppendorf	M1324-0002 I26 Stackable Incubator Shaker without Refrigeration, 1 in (2.5 cm) Orbit, 230V, 50Hz	1
Shakers	Eppendorf	M1352-0002 Excella E24 Benchtop Incubator Shaker, 3/4 in (1.9 cm) Orbit, 230V, 50Hz	1
Shakers	Eppendorf	M1352-0006 Excella E24R Benchtop Incubator Shaker with Refrigeration, 3/4 in (1.9 cm) Orbit, 230V, 50Hz	1
LAF	Labconco	3250028 - 5ft Purifier Horizontal Clean Bench with UV Light	2
LAF	Labconco	3250028 - 5ft Purifier Horizontal Clean Bench with UV Light	1
electroporator	Biorad	MicroPulser Electroporator	1
Centrifuges	Hettich	Micro 200 Non refrigeraed Tabletop Centrifuge 230V/50Hz and 2405 Mikro 200R Tabletop Refrigerated centrifuge 230V/50Hz	2+2

Spectrophotometer	Eppendorf	Biospectrometer	1
incubators	JS research Inc	JSGI-50T General Incubator	1
incubators	JS research Inc	JSGI-50T General Incubator	1
incubators	JS research Inc	JSGI-100T General Incubator	1
incubators	JS research Inc	JSGI-100T General Incubator	1
Water Bath	Triune	Water Bath	1
Anaerobic Chamber	Ruskinn	Bugbox	1
Waterbaths	Polyscience	PP07R-40-A12E Performance Programmable; 7L Refrigerated Circulating water bath and PP15R-30-A12E Performance Programmable 15L Refrigerated circulating water bath	1+1
Gene Pulser	Biorad	Gene Pulser Xcell Total system	1
Micro pulser	Biorad	MicroPulser Electroporator	1
Refrigerator	Scimed	MPR – 514R Pharmaceutical Refrigerator	1
Fume Hood	Labconco	100400061 - 4' Protector Premier Laboratory Hood with built-in blower with 2 service fixtures	1
Freeze Drier	SP Scientific	G25EL VIRTIS GENESIS 25 EL PILOT FREEZE DRYER	1

Biosuites			
Equipment	Company	Description	Quantity
Biosafety hoods	Labconco	302481170 4ft Purifier Logic+ Class II A2 Biosafety cabinet with Base stand	4
Co2 incubators	Panasonic	MCO – 170AIC(UV) Air Jacket Co2 Incubator with UV Sterilization and H2O2	4
waterbaths	JS Research Inc	JSWB-11T Digital Water Bath	4
Table top Centrifuges	Beckman	A99467 Allegra X-30, 220-240V, 50/60Hz 4	4
Nucleofectometer	Lonza	4D Nucleofector Core Unit and X unit	1+1
	CTS Europe	BUB STY RED Safety Bubble with HEPA and Carbon Filtration, air flow alarm and lamp, Red base	1
Upright fluorescence	Nikon, Leica	Nikon Upright microscope ECLIPSE Ni-U main body (100-240V) equipped with : capture bottom, build in NCB11, ND8, ND32/fixed difuser filed diaphragm, dual fine/coarse focusing, adjusting tools	1
		Leica DM 2500 Upright Microscope for transmitted light and fluorescence	1
Tissue culture inverted Microscope	Nikon, Leica	Nikon TS100LED-F MV Main Body (100-240 V) with built in transformer, lain stage, LED illumination and trinocular head	2
		Leica DMI1 Tissue Culture Microscope	2
Stereozoom microscope	Nikon, Leica	SMZ1270 Zooming body; Zooming range:0.63X-8X, zooming ratio:12.7:1, Total Magnification:6.3X-80X	1
		Leica M205 C Stereomicroscope	1
Gene Pulser	Biorad	Gene Pulser Xcell Total system	1

Molecular Biology			
Equipment	Company	Description	Quantity
Gel doc	Biorad	Gel Doc XR+, Molecular Imager Gel Documentation System,	1
Gel Doc	Vilber Lourmat	Bio Print (Gel Doc)	1
Chemidoc	Biorad	ChemiDoc Touch instrument	1
PCR	Biorad	T100™ Thermal Cycler	6
Realtime PCR	Agilent	G8830A AriaMx Real-Time PCR Base Instrument	1
Realtime PCR	Biorad	Real-Time PCR Detection System	1
Automated Electrophoresis System	Biorad	Experion System, for DNA/RANA analysis, Protein	1
Automated Liquid Handling System	Beckman	B22637 Biomek 4000 Automated PCR Set-up Package	1
Table Top Centrifuges	Eppendorf	5403 000.413 Centrifuge 5424R (refrigerated), 230V/50-60Hz, knob version, incl. rotor FA-45-24-11, aerosol-tight	2
Table Top Centrifuges	Eppendorf	5404 000.413 Centrifuge 5424 (refrigerated), 230V/50-60Hz, knob version, incl. rotor FA-45-24-11, aerosol-tight	2
Thermo mixer	Eppendorf	5382 000.015 ThermoMixer C, basic device without thermoblock, 220-240V	2
UV-Vis spectrophotometer	Agilent	G9825AA Cary 5000 UV-Vis-NIR Bundle.	1
Sonicator	Q sonica	Sonicator	1
Water Bath	Triune	Water Bath	1

Amersham Imager	GE	Amersham Imager 600 RGB	1
DNA electrophoresis systems	Biorad	Horizontal Electrophoresis unit with Power Pac - Mini-Sub Cell GT Cell With 7 x10 cm tray and PowerPac Basic Power Supply	4
Protein electrophoresis systems	Biorad	Mini-PROTEAN Tetra and Mini-PROTEAN 10-well, 1.0 mm thickness; 2-gel system	4
western blotting systems	Biorad	Western, Northern & Southern Blotting Unit - Trans-Blot® Turbo™ Instrument	4
Homogeniser	stanstedt	TC5-0612W-332 system High Pressure Homogenize	1
Centrifugation Facility			
Equipment	Company	Description	Quantity
Floor Ultra Centrifuge	Beckman	A94469 OPTIMA XPN - 100	1
Benchtop Ultracentrifuge	Beckman	393315 Optima™ MAX-XP	1
Floor High Speed	Beckman	363120 AVANTI J-30I CENTRIFUGE 230V 50HZ	1
Table Top	Beckman	A99471 Allegra X-30R, 220-240V, 50/60Hz	2
Floor High Speed	Thermo	75006580 THERMO SCIENTIFIC SUPER SPEED CENTRIFUGE, FLOOR MODEL	1
Plant Tissue Culture			
Equipment	Company	Description	Quantity
LAF	Labconco	3250028 - 5ft Purifier Horizontal Clean Bench with UV Light	1
Plant growth chamber	Panasonic	MLR-352H Plant growth Chamber	1
centrifuge	Eppendorf	5404 000.413 Centrifuge 5424R (refrigerated), 230V/50-60Hz, knob version, incl. Rotor, FA-45-24-11, aerosol-tight	1

Gas Chromatography Room			
Equipment	Company	Description	Quantity
GC/ cold room	Agilent	G4350A Agilent 7820A GC System	1
Water purification systems			
Equipment	Company	Description	Quantity
	Sartorius	arium® advance EDI(TYPE 2 SYSTEM)- 10 liters/Hour	1
		arium® pro VF bench-top system, incl. UV lamp, Ultra filter and TOC monitor H2Opro-VF-T-TOC (TYPE 1 SYSTEM) -120 liters/Hour	1
	Elga	CN120RDM1-230 The CENTRA-R 120 (Type II) has been created specifically to bridge the gap between small loop systems and the larger modular CENTRA range. It can supply upto two adjacent laboratories with water.	1
		ULXXXANM2 PURELAB Ultra Analytic (Type 1), Ultra Pure Water Polishing unit.	
General			
Equipment	Company	Description	Quantity
pH meters	Triune	FEP20-ATC-Glass Kit and pH FEP20 ATC Kit	2+3
Pipettes	Eppendorf/ Ranin	Research plus, adjustable 0.1- 1000µl ranges	5 of each range, total 25 from eppendorf and, 10 of each, total 50 from Ranin
Pipettes	Eppendorf	4982 000.012 - Eppendorf Multipette® M4 - Hand-held dispenser	5

Pipettes	Eppendorf	4430 000.018 - Easypet 3 incl. power supply, wallholder, removalbe shelf rack and Including power supply, wallholder, removalbe shelf rack and 2 membrane filters 0.45µm (non sterile)	6
Vaccum pump	Ranin	Vacuum Pump oil Free Membrane type 220V 50Hz Portable free air delivery 35-40L Per minute with Vacuum regulator	10
Balances	Mettler toledo/ sartorius	Analytical balance; Precision balance; Semi-micro balance;	2+3+2
Fume Hood	Labconco	100400061 - 4' Protector Premier Laboratory Hood with built-in blower with 2 service fixtures	9
Fume Hood	Labindia	4 ft bench Fume hood	15
Equipments Provided to each Incubatee			
Equipment	Company	Description	Quantity
Mini Centrifuge	Thomas Scientific	1222U61 Thomas Mini Centrifuge Red 230V/52Hz	25
Heater	Bibby Scientific	DB100/2 Dry Block Heater	25
Magnetic Stirrer	Bibby Scientific	UC152 Hot plate with Magnetic Stirrer	25
Speed Rollers	Bibby Scientific	SRT6D Digital Control Variable Speed Rollers	25
Rotators	Bibby Scientific	SB3 Rotator	25
Vortex mixers	Bibby Scientific	SA8 Vortex Mixer	25
Rockers	Bibby Scientific	SSL3 Lab Scale Gyrotory Rocker	25

Shakers	Bibby Scientific	SSM5 Microtitre plate Shaker	25
Water bath	Bibby Scientific	SWB6D 6 Litre Water Bath	25
FACS Facility			
Equipment	Company	Description	Quantity
Cell sorter	bio-rad	S3e CELL SORTER 488 LASERS and S3e Biosafety Cabinet	1+1
Cell analyser	beckman	Flow Cytometer	1
Washing and Sterilization facility			
Equipment	Company	Description	Quantity
Laboratory Glassware Washer dryer	Gettinge Lancer	Model Labexia 1300 LX , 380/400V, 3 Phase + Neutral, 50Hz	1
Autoclave	JS Research inc	JSAC-100 Autoclave/Steam Sterilizer	2
Autoclave	TUTTNAUER EUROPE b.v.	5596-250 ltrs floor standing model with Hinged door Autoclave	1
Oven	JS research	JSOF-400T Forced Convection Oven and JSOF-700T Forced Convection Oven	2+2
Pass box	JJ Biotek	Pass Box	2
Ice flake Machine	Brema	GB 1540 Ice Flake Machine	2
Lab Support			
Equipment	Company	Description	Quantity
Deep Freezer	Scimed	MDF-U55V -86°C Deep Freezer	8
Freezer		MDF-U731M -30°C Upright Deep Freezer	8
Refrigerator		MPR – 514 Pharmaceutical Refrigerator	6
Refrigerator		MPR – 514R Pharmaceutical Refrigerator	1
Refrigerator		MPR – 1411 Pharmaceutical Refrigerator	1
Incubator		MIR -254 Cooled incubator	1

Liquid nitrogen storage	Taylor Wharton	LD50 Liquid Nitrogen Storage Dewar	2
System Unit	Taylor Wharton	LS 6000-AT Laboratory System Unit (165 Litres) with (6) Racks With Autotend controller	2
Nitrogen Generator	JJ Biotek	MVS Liquid Nitrogen Generator	1