

Microscopy Facility				
SL/No	Equipment	Company	Description	Quantity
1	Confocal	Nikon	Nikon Laser Scanning Confocal microscope model C2 with spectral facility	1
2	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				
1	Microtome	Leica	Leica Semi motorised microtome	1
2	Vibratome	Leica	Leica vibratome model with motorised sectioning with chiller support	1
3	Cryostat	Leica	Leica cryostat	1
4	Paraffin embedding system	Leica	Leica Tissue embedder with cold and hot plates	1
5	Slide stainer	Leica	Leica slide stainer	1
Proteomics facility and small molecule analysis lab				
1	Avant FPLC	GE	Chromatography system AKTA Avant 25 user kit	1
2	FPLC explorer	Bio-rad	788-0003 NGCTM Quest	1
3	LC-MS	Shimadzu	LCMS-2020 Single Quadropole Mass Spectrometer	1
4	Prep/Analytical HPLC	shimadzu	Shimadzu promonence LC-20 AP preparative HPLC system with Fraction collector	1
5	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
6	LC Automated System	Waters	176003057 Prep 150Q LC Automated System w/PDA	1
7	Protein Analysis	Waters	Nano Differential Scanning Calorimeter with Platinum Capillary Cells; includes calorimeter assembly	1
8	Protein Analysis	Waters	Nano Isothermal Titration Calorimeter Low Volume Gold: Nano ITC Low Volume System	1
9	microplate reader	Perkin elmer	2300-0000 EnSpire Base Unit; 2301-0130 Label Free Tech	1
10	microplate reader	Molecular devices	M5e-ACAD SpectraMax M5e Multi-Detection Reader.	1
11	microplate reader	Molecular devices	Spectra Max L – Spectra Max L Luminescence Microplate Reader	1
12	microplate washer	Molecular devices	Aquamax 2000 Bundle – Aquamax 2000 Base Unit	1
13	Spectrophotometer	biorad	SmartSpec Plus Spectrophotometer	1
14	Multiplex immuno assay system	Biorad	171000203 Bio-Plex Suspension Array System 200, 100-240V	1

Fermentation Facility				
1	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				
1	Shakers	Eppendorf	M1324-0006 I26R Stackable Incubator Shaker with Refrigeration, 1 in (2.5 cm) Orbit, 230V, 50Hz	1
2	Shakers	Eppendorf	M1324-0002 I26 Stackable Incubator Shaker without Refrigeration, 1 in (2.5 cm) Orbit, 230V, 50Hz	1
3	Shakers	Eppendorf	M1352-0002 Excella E24 Benchtop Incubator Shaker, 3/4 in (1.9 cm) Orbit, 230V, 50Hz	1
4	Shakers	Eppendorf	M1352-0006 Excella E24R Benchtop Incubator Shaker with Refrigeration, 3/4 in (1.9 cm) Orbit, 230V, 50Hz	1
5	LAF	Labconco	3250028 - 5ft Purifier Horizontal Clean Bench with UV Light	2
6	LAF	Labconco	3250028 - 5ft Purifier Horizontal Clean Bench with UV Light	1
7	electroporator	Biorad	MicroPulser Electroporator	1
8	Centrifuges	Hettich	Micro 200 Non refrigeraed Tabletop Centrifuge 230V/50Hz and 2405 Mikro 200R Tabletop Refrigerated centrifuge 230V/50Hz	2+2
9	Spectrophotometer	Eppendorf	Biospectrometer	1
10	incubators	JS research Inc	JSGI-50T General Incubator	1
11	incubators	JS research Inc	JSGI-50T General Incubator	1
12	incubators	JS research Inc	JSGI-100T General Incubator	1
13	incubators	JS research Inc	JSGI-100T General Incubator	1
14	Water Bath	Triune	Water Bath	1
15	Anaerobic Chamber	Ruskinn	Bugbox	1
16	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
17	Gene Pulser	Biorad	Gene Pulser Xcell Total system	1
18	Micro pulser	Biorad	MicroPulser Electroporator	1
19	Refrigerator	Scimed	MPR – 514R Pharmaceutical Refrigerator	1
20	Fume Hood	Labconco	100400061 - 4' Protector Premier Laboratory Hood with built-in blower with 2 service fixtures	1
21	Freeze Drier	SP Scientific	G25EL VIRTIS GENESIS 25 EL PILOT FREEZE DRYER	1

Biosuites				
1	Biosafety hoods	Labconco	302481170 4ft Purifier Logic+ Class II A2 Biosafety cabinet with Base stand	4
2	Co2 incubators	Panasonic	MCO – 170AIC(UV) Air Jacket Co2 Incubator with UV Sterilization and H2O2	4
3	waterbaths	JS Research Inc	JSWB-11T Digital Water Bath	4
4	Table top Centrifuges	Beckman	A99467 Allegra X-30, 220-240V, 50/60Hz 4	4
5	Nucleofectometer	Lonza	4D Nucleofector Core Unit and X unit	1+1
6		CTS Europe	BUB STY RED Safety Bubble with HEPA and Carbon Filtration, air flow alarm and lamp, Red base	1
7	Upright fluorecence	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 fluorecence	1
8	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
9	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
10	Gene Pulser	Biorad	Gene Pulser Xcell Total system	1

Molecular biology				
1	Gel doc	Biorad	Gel Doc XR+, Molecular Imager Gel Documentation System,	1
2	Gel Doc	Vilber Lourmat	Bio Print (Gel Doc)	1
3	Chemidoc	Biorad	ChemiDoc Touch instrument	1
4	PCR	Biorad	T100™ Thermal Cycler	6
5	Realtime PCR	Agilent	G8830A AriaMx Real-Time PCR Base Instrument	1
6	Realtime PCR	Biorad	Real-Time PCR Detection System	1
7	Automated Electrophoresis System	Biorad	Experion System, for DNA/RANA analysis, Protein	1
8	Automated Liquid Handling System	Beckman	B22637 Biomek 4000 Automated PCR Set-up Package	1
9	Table Top Centrifuges	Eppendorf	5403 000.413 Centrifuge 5424R (refriger-ated), 230V/50-60Hz, knob version, incl. rotor FA-45-24-11, aerosol-tight	2
10	Table Top Centrifuges	Eppendorf	5404 000.413 Centrifuge 5424 (refriger-ated), 230V/50-60Hz, knob version, incl. rotor FA-45-24-11, aerosol-tight	2
11	Thermo mixer	Eppendorf	5382 000.015 ThermoMixer C, basic device without thermoblock, 220-240V	2
12	UV-Vis spectrophotometer	Agilent	G9825AA Cary 5000 UV-Vis-NIR Bundle.	1
13	Sonicator	Q sonica	Sonicator	1
14	Water Bath	Triune	Water Bath	1
15	Amersham Imager	GE	Amersham Imager 600 RGB	1
16	DNA electrophoresis systems	Biorad	Horizontal Electrophoresis unit with Power Pac - Mini-Sub Cell GT Cell With 7 x10 cm trayand PowerPac Basic Power Supply	4
17	Protein electrophoresis systems	Biorad	Mini-PROTEAN Tetra and Mini-PROTEAN 10-well, 1.0 mm thickness; 2-gel system	4
18	western blotting systems	Biorad	Western, Northern & Southern Blotting Unit - Trans-Blot® Turbo™ Instrument	4
19	Homogeniser	stanstedt	TC5-0612W-332 system High Pressure Homogenize	1
Centrifugation Facility				
1	Floor Ultra Centrifuge	Beckman	A94469 OPTIMA XPN - 100	1
2	Benchtop Ultracentrifuge	Beckman	393315 Optima™ MAX-XP	1
3	Floor High Speed	Beckman	363120 AVANTI J-30I CENTRIFUGE 230V 50HZ	1
4	Table Top	Beckman	A99471 Allegra X-30R, 220-240V, 50/60Hz	2
5	Floor High Speed	Thermo	75006580 THERMO SCIENTIFIC SUPER SPEED CENTRIFUGE, FLOOR MODEL	1

Plant Tissue culture				
1	LAF	Labconco	3250028 - 5ft Purifier Horizontal Clean Bench with UV Light	1
2	Plant growth chamber	Panasonic	MLR-352H Plant growth Chamber	1
3	centrifuge	Eppendorf	5404 000.413 Centrifuge 5424R (refriger-ated), 230V/50-60Hz, knob version, incl. Rotor, FA-45-24-11, aerosol-tight	1
Gas Chromatography Room				
1	GC/ cold room	Agilent	G4350A Agilent 7820A GC System	1
Water purification systems				
1	Sartorius	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
2	Elga	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				
1	pH meters	Triune	FEP20-ATC-Glass Kit and pH FEP20 ATC Kit	2+3
2	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
3	Pipettes	Eppendorf	4982 000.012 - Eppendorf Multipette® M4 - Hand-held dispenser	5
4	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
5	Vaccum pump	Ranin	Vacuum Pump oil Free Membrane type 220V 50Hz Portable free air delivery 35-40L Per minute with Vacuum regulator	10
6	Balances	Mettler toledo/ sartorius	Analytical balance; Precision balance; Semi-micro balance;	2+3+2
7	Fume Hood	Labconco	100400061 - 4' Protector Premier Laboratory Hood with built-in blower with 2 service fixtures	9
8	Fume Hood	Labindia	4 ft bench Fume hood	15

Equipments Provided to each Incubatee				
1	Mini Centrifuge	Thomas Scientific	1222U61 Thomas Mini Centrifuge Red 230V/52Hz	25
2	Heater	Bibby Scientific	DB100/2 Dry Block Heater	25
3	Magnetic Stirrer	Bibby Scientific	UC152 Hot plate with Magnetic Stirrer	25
4	Speed Rollers	Bibby Scientific	SRT6D Digital Control Variable Speed Rollers	25
5	Rotators	Bibby Scientific	SB3 Rotator	25
6	Vortex mixers	Bibby Scientific	SA8 Vortex Mixer	25
7	Rockers	Bibby Scientific	SSL3 Lab Scale Gyrotory Rocker	25
8	Shakers	Bibby Scientific	SSM5 Microtitre plate Shaker	25
9	Water bath	Bibby Scientific	SWB6D 6 Litre Water Bath	25
FACS facility				
1	Cell sorter	bio-rad	S3e CELL SORTER 488 LASERS and S3e Biosafety Cabinet	1+1
2	Cell analyser	beckman	Flow Cytometer	1
Washing and Sterilization facility				
1	Laboratory Glassware Washer dryer	Gettinge Lancer	Model Labexia 1300 LX , 380/400V, 3 Phase + Neutral, 50Hz	1
2	Autoclave	JS Research inc	JSAC-100 Autoclave/Steam Sterilizer	2
3	Autoclave	TUTTNAUER EUROPE b.v.	5596-250 ltrs floor standing model with Hinged door Autoclave	1
4	Oven	JS research	JSOF-400T Forced Convection Oven and JSOF-700T Forced Convection Oven	2+2
5	Pass box	JJ Biotek	Pass Box	2
6	Ice flake Machine	Brema	GB 1540 Ice Flake Machine	2
Lab Support				
1	Deep Freezer	Scimed	MDF-U55V -86°C Deep Freezer	8
2	Freezer		MDF-U731M -30°C Upright Deep Freezer	8
3	Refrigerator		MPR – 514 Pharmaceutical Refrigerator	6
4	Refrigerator		MPR – 514R Pharmaceutical Refrigerator	1
5	Refrigerator		MPR – 1411 Pharmaceutical Refrigerator	1
6	Incubator		MIR -254 Cooled incubator	1
7	Liquid nitrogen storage	Taylor Wharton	LD50 Liquid Nitrogen Storage Dewar	2
8	System Unit	Taylor Wharton	LS 6000-AT Laboratory System Unit (165 Litres) with (6) Racks With Autotend controller	2
9	Nitrogen Generator	JJ Biotek	MVS Liquid Nitrogen Generator	1