



Real Time PCR



MP-AES Microwave Atomic Emission System



Differential Scanning Calorimeter



HPLC with sample collector

DEPARTMENT OF BIOTECHNOLOGY
JIT NOIDA
HIGH END RESEARCH FACILITY



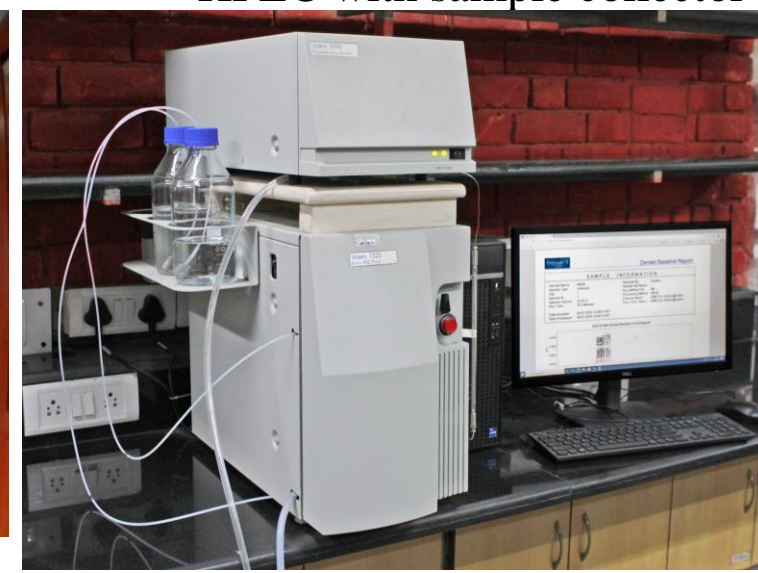
Muse Cell Analyzer



Polymerase Chain Reaction (PCR) Unit



Cell Culture Lab



High Pressure Liquid Chromatography

Lab wise list of Instruments

S.No.	Laboratory	Instruments
1.	M.Tech Lab	Micro Centrifuge , Gene Cyclor (Biorad), Dry Bath, U.V Transilluminator, Orbital Incubator Shaker, Horizontal Laminar Flow, Lab Centrifuge, Power Supply & Electrophoresis Units, Vortex Mixture, Electronic Balance and Incubator, -20 Refrigerator, Refrigerator, Binocular Dissecting Microscope (Olympus), Electrophoresis units and Power Supply, Water bath rectangular, Rocker, Hot plate
2.	Biotech Lab - I	Incubator, Magnetic Stirrer, Monocular Microscope (Olympus), Horizontal Laminar Flow, Balance (Denver), Refrigerator, pH Meter, Orbital Incubator Shaker, Deep Freezer (-80°C) (Newbrunswick), Water Bath, Incubator Shaker, Binocular Microscope (Olympus), Vortex (Eltek), Hot Plate, Orbital Shaker (Kuhner)
3.	Biotech Lab - II	Horizontal Laminar Flow, Orbital Incubator Shaker, Incubator, Magnetic Stirrer, Monocular Microscope, c), Hot Plate, Binocular Microscope (Olympus), Electrophoresis Units, Balance Precision, Ice flaking machine, Magnetic stirrer with hot plate, Cyclo mixer with brush less motor, Premium U410 upright freezer, Ultra -Low Centrifuge (refrigerated)
4.	Bioinformatics Lab	Latest P4 Machines with 512 Mb RAM,(25 nos.) Intel Processor, colour monitors (Hewlett Packard/ Compaq), Schrodinger Software, Sigma plot version 9.0, Dell Optiplex 7050 Series--8 GB RAM (Infotrack solutions), HP OfficeJet Pro 6970 All-in-One Printer(J7K34A), Dell T430 Server Series
5.	Molecular Biology Lab	DNA gel electrophoresis, Centrifuge, U.V. Torch, Balance (Denver), Vortex (Eltek), PCR (Thermoscientific), Gel dryer, pH meter, Shaker, Rotor

6.	Molecular Structure Lab	Mini Protein vertical electrophoresis system (Genetix), Mini sub system for 100 X 70mm (Genetix), Agarose electrophoresis Unit (G Biosciences), Biosafety Cabinet (ISIC), Deep freezer (-20°C) (Genetix), Stirred cell (Merck Millipore), Nitrogen gas cylinder (Sigma), Orbital shaking incubator (Remi), Refrigerated centrifuge (Genetix), Mini centrifuge (Genetix), Vortex Mixer (Genetix), Compact Balance (Genetix), Tube rotator (Genetix), Gel Rocker(Genetix), Magnetic Stirrer with Hot plate (Remi), Gradient maker (G Biosciences) , Portable Autoclave (ISIC), Refrigerator (LG), Vibration free incubator, Multiskan FC Microplate photometer with PC (Thermo Scientific), Refrigerator/Cold Cabinet (Star Industries)
7.	Microbial Biotechnology lab	Laminar Air Flow (Atlantis), Microscope (Olympus), Bio-Flow Fermenter (Eppendorf), Shaker Incubator (Eppendorf), Refrigerator (Samsung), Colony counter (UBTECH), Water Analyzer (Systronics UVSAR), Spectrophotometer(Labomed), BML Incubator (UVSAR)
8.	Biochemistry Lab	Incubator, Balance (Denver), Water Bath (G.F.L. Germany), Centrifuge, pH Meter (Orion), Vortex, Spectronic 20-D (Thermospectronic), Blender, Clinical Centrifuge, Binocular Dissecting Microscope (Olympus), pH meter, Microwave
9.	Immunology Lab	ELISA Reader (Biorad), Magnetic Stirrer & Vortex Mixer, Gel Rocker, Balance (Denver), Water Bath, Incubator, Clinical Centrifuge, U.V Spectrophotometer (Systronic, Shimadzu), Power Supply, SDS PAGE Transfer Apparatus, pH Meter, Electronic Needle Syringe Destroyer, Multi Channel Micro Pipettes (Eppendorf), Rocker
10.	Central Instrumentation Facility	PCR, Real Time PCR (Thermo), HPLC (Waters), Water Purifying System (Millipore), Refrigerated Centrifuges (Sigma, Hermle), Deep Freezers, Sonicator (Sonics), Orbital Shaker (Kuhner), Fermenter, U.V. Spectrophotometer, Lyophilizer (Martin Christ), Protein Purification System (Biorad),

		<p>Gel Documentation System (Biorad), Gel Air Drying System (Biorad), Conductivity Meter, Homogenizer (Eltek), Microtome (Spencers), Micro Wave Oven, Micro Pipettes (Gilson), Magnetic Stirrer, Digital pH Meters and Water Bath, Autoclave (Hicon), Autoclave, Ice Flake Machine (Allied Frost), Oven, Fume Hoods, Deep Freezer (-80°C) (Newbrunswick), Cold Room, Cold Chambers, Chemical hood, ELISA reader (Thermo Scientific), Biosafety Cabinet (ISIC), HPLC, Dissolution Apparatus, Centrifuge, Ultracentrifuge, Ultrasonicator, frequency counter, Microammeter, Electrochemical workstation, Handheld galvanostat/potentiostat, Protein crystals growth chamber/vibration free incubator (NSW), Gradient maker (G Biosciences), Fermenter (Newbrunswick), Gas chromatography (Thermo Scientific), Thermal Cycler (Eppendorf), Spectrophotometer visible LMSP-V325</p>
11.	Nano Therapeutics Lab	<p>Ultracentrifuge (Optima), Ultrasonicator (PCI), Refrigerator (Samsung) CO2 Incubator, Orbital Rotary Shaker (Remi, India), Double Beam Spectrophotometer (Shimadzu), HPLC System (Waters) Dissolution Test Apparatus (Veego), Homogenizer (Omni International) Centrifuge (Remi), Magnetic Stirrer (Remi), Ultrasonic Water Bath (Wensar), Ultrasonicator (Heilcher), Vortex Shaker</p>
12.	Centre for Emerging Disease	<p>Nanodrop spectrophotometer, Eppendorf Biophotometer plus, Speedvac concentrator, Electroporator (Biorad), mini spin, DNA gel electrophoresis Unit, Refrigerated Centrifuge, Incubator Shaker (Innova 42), Thermal Cycler Machine (Biorad), Easy Pet, Protein Gel Apparatus with blotting Assembly, Balance, Digital pH Meter (Cyberscan), Standard Chilling/Heating Dry Bath (Enertech), Vortex (Eltek), U.V. Torch, U.V. Trans-illuminator, Peristaltic Pump (Millipore), Blender, Horizontal Laminar, Mini Centrifuge, Refrigerator, Orbital Shaker (Kuhner), Vertical Laminar Flow (Class 2 B2), -20 Refrigerator, UV cross linker, AKTA-FPLC</p>

13.	Basic Bioscience Lab	Water Bath (G.F.L. Germany), Incubator (37°C), pH meter, Rocker, Laminar air flow, deep freezer, Autoclaves, Biosafety cabinets, Colorimeter, Spectrophotometer
14.	Systems Biology Lab	Latest. 15 Machines with 8 Gb RAM, 1Tb Hard Disk,(16 nos.) Nvidia Card, Intel Processor, Windows 10 OS , Memos Pro5.1 softwares With TFT 19 inch colour monitors (Hewlett Packard)
15.	Research Lab -I	CO2 Incubators (Newbrunswick), Laminar Flows, Inverted Microscope (Olympus), Fluorescence microscope, Filtration assembly, Peristaltic Pump (Millipore), Incubator (37°C) (Hicon Orbital), Incubator Shaker (Yorco) and Deep Freezer, centrifuge, vortex
16.	Research Lab -II	Nitrogen cylinders (Sigma), Photoperiod controller, digital temperature controller, centrifuge, vortex, hot plate, Plant Growth Chamber, Laminar hood, BOD Incubator, Plant growth chamber, Nitrogen cylinder (Sigma)Photoperiod controller, digital temperature controller, centrifuge, vortex, hot plate, Plant Growth Chamber, Laminar hood, BOD Incubator, Plant growth chamber, Nitrogen cylinder (Sigma)