

**RESEARCH SECTION
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
Centralized Core Research Facility**

Date: 08-06-2022

Subject: Restoration of Centralized Core Research Facility (CCRF) at AIIMS.

This is to inform that a number of common facilities in the CCRF have been restored now.

A comprehensive list of the restored facilities along with the name of the scientist in charge and their contact details are enclosed.

All faculty members, scientists, students, and researchers are welcome to use these facilities as per the terms and conditions of the CCRF.



Prof. Vineet Ahuja
Associate Dean (Research)



Prof. Subrata Sinha
Dean (Research)

Enclosure: List of Research and analysis facilities available at CCRF

CENTRALIZED CORE RESEARCH FACILITY: LIST OF AVAILABLE RESEARCH & ANALYSIS FACILITIES

NAME OF FACILITY & LOCATION	INSTRUMENT(s) AVAILABLE	SERVICES OFFERED	USER CHARGES	FACULTY IN CHARGE/ CONTACT PERSON	EMAIL	FACILITY PHONE/ MOBILE	Other Details
1. Bioanalytics Facility				Faculty Incharge Dr. T Velpandiyan , Professor, Ocular Pharmacology & Pharmacy, R. P. Centre Contact Person Dr. H. P. Sharma (Scientist-II)			
Department of Ocular Pharmacology & Pharmacy, 6th floor, Dr. R. P. Centre	Analytical HPLC with ELSD detector	Analytical HPLC	₹ 50/- per sample + ₹ 100/- per hour of HPLC usage		bioanalytics.ccrf@gmail.com	011-26593162	* user/method specific items viz – specific HPLC columns, solid phase extraction columns (SPEs), centrifilters, extraction solvents, standards and internal standards are to be brought by the User
		*HPLC grade solvents, plastic-wares, standard glass wares and standard HPLC columns are provided by the facility.					
2. FACS Facility				Faculty Incharge Dr. D.K. Mitra, Professor & Head, Department of T.I.I Contact Person Dr. Rahul Sharma, (Scientist-II)			
CCRF, 9th floor Convergence Block	BD FACS Aria Fusion Sorter-18 color, 5 LASER	Cell Sorting	₹ 500/-per hour		facs.ccrf@gmail.com	011-2654-9292 011-2654-8652,	Currently, only fixed human tissue samples & fixed /unfixed cell lines are being sorted.
	NIKON upright trinocular phase contrast microscope with fluorescence and digital imaging function	Sorted Cell Purity assessment	No charges				
	*BD FACS Symphony A5, 35 color, 5 LASER	Cell Acquisition	₹ 300/- per hour				

3. Bioinformatics Facility							
Room no. 5001, 5th floor, Genomics Centre, Convergence Block	High performance computing cluster (HPC),	Whole-genome sequencing (WGS)	No charges at present	Faculty Incharge Dr. Punit Kaur, Professor & Head, Department of Biophysics Contact Person Dr. Amit Katiyar (Scientist II)	bioinformatics.ccrf@gmail.com	9999802332	Users are requested to fill up the User requisition form and submit it to the Scientist In-charge to book an appointment slot. Prior appointments should be scheduled via email or phone at least one day in advance.
		Whole-exome sequencing (WES)					
		Copy number variation (CNV)					
		RNA sequencing (RNA-seq)					
		Small RNA sequencing (sRNA-seq)					
	Dell Precision 2820 Tower Workstation	Ribosome sequencing (Ribo-seq)					
		Methylation sequencing (Methyl-Seq)					
		Illumina BeadChip Array (HumanMethylation450/EPIC)					
		Metagenomics (whole shotgun metagenomic sequencing)					
		Metataxonomics (16S rRNA gene sequencing)					
		Noncoding RNA (lncRNA, circRNA)					
		Targeted-gene sequencing/panels (TGP)					
		Microarray (Affymetrix, Agilent, and Illumina)					
		Pan-genome (core genome and accessory genome)					
		Genome assembly (de novo and reference-based) and annotation					
		Phylogenetic analysis (sequence identity, wgMLST and SNP-based)					
		Genotypic characterization of antibiotic-resistant in bacteria					
		Gene ontology and pathway enrichment analysis					
		Interaction network (generic PPI, gene-disease association, gene-miRNA)					
		Molecular docking and simulation					
		Machine learning/AI on Genomics data					

NAME OF FACILITY & LOCATION	INSTRUMENT(s) AVAILABLE	SERVICES OFFERED	USER CHARGES	Faculty Incharge/ CONTACT PERSON	EMAIL	FACILITY PHONE/ MOBILE	Other Details
4. Microscopy Facility				Faculty Incharge Dr. Parthaprasad Chattopadhyay, Professor, Department of Biochemistry Contact Person Dr. Saumitra Dey Choudhury (Scientist-II)			
Room No. 8A, Ground Floor, Convergence Block	Advanced High Speed Spectral Laser Scanning Confocal Microscope – (LSM980- Carl Zeiss)	Fixed sample imaging	No charges at present		confocal.ccrf.a iims@gmail.com sam08blore@gmail.com	01126549261, Extn: 8561 Mob:7566660260	
		Live cell imaging					
		Offline image processing and analyses using ZEN and Fiji softwares					
5. Proteomics Facility				Faculty Incharge Dr. Punit Kaur, Professor & Head , Department of Biophysics Contact Persons Dr. Sabyasachi Bandyopadhyay (Scientist II) Dr. Ashutosh Kr Arya (Scientist II)			
CCRF, 9th floor, Convergence Block	Temperature controlled Vaccum Concentrator (01 August 2022 onwards)	Concentrating protein/peptide solution	No charges at present		proteomics.ccrf@gmail.com sabyachem@gmail.com aryan.hcu@gmail.com	011-26549261, Extn: 8963	LC-MS instrument (Orbitrap Fusion Tribrid Mass spectrometer) is currently under assessment for function. Users can contact scientists appointed in the facility for analysis of raw data generated from proteomics-based experiments.
		Analysis of raw data (generated from proteomics-based experiments.)					

NAME OF FACILITY & LOCATION	INSTRUMENT(s) AVAILABLE	SERVICES OFFERED	USER CHARGES	FACULTY IN CHARGE/ CONTACT PERSON	EMAIL	FACILITY PHONE/ MOBILE	Other Details
6. General Facility							
CCRF, 9th Floor, Convergence Block	Ultracentrifuge Optima XPN-100 (Beckman Coulter) with following rotors Sw-40-Ti , Sw-32Ti , 70.1 Ti , 45-Ti VTi-65.1	Ultracentrifugation of non-hazardous samples	No charges at present	Faculty Incharge Dr. Kalpana Luthra Professor, Department of Biochemistry Contact Persons Dr. Vikas Sharma (Scientist II) Dr. Shubbir Ahmed (Scientist II)	generalfacility.ccrf@gmail.com	011-2654-8963 Extn:8963	Users are requested to bring their consumables and necessary non-consumable items for using the relevant types of equipment <i>Request for booking may be preferably given 2 days in advance</i>
	Multimode-Microplate Reader Cytation 1 (Biotek)	Cell imaging and DNA/RNA/protein quantification					
	Multimode Gel documentation system (Syngene)	DNA/RNA/protein visualisation, imaging and analysis					
	Proflex Thermal Cycler PCR (Applied Biosystems)	Gene amplification and cDNA synthesis					
	96 well PCR machine (Applied biosystem, Agilent)	Gene amplification and cDNA synthesis					
	Electroporation system -Gene pulsar (Bio-Rad)	Electroporation of competent cells					
	Multi-rotor cold centrifuge- Sorvall legend XTR (Thermo Scientific) to support 1.5ml/2ml/4.5-6ml/15ml/ 50ml/ 1500ml (1.5L) volume and 96 well plate	Centrifugation of small to large volume samples at low temperature					
	Refrigerated-Centrifuges - (ThermoScientific)	Centrifugation of small samples (<2ml)					
	Homogenizers (JSR))	Homogenisation of tissues					
	Western Blot apparatus (Applied Biosystems)	Western Blotting/ Immunoblotting					
	Rapid semi-Dry system (Applied Biosystems)	Protein transfer from polyacrylamide gel to various membrane					
	Agarose Gel electrophoresis system (Bio-Rad)	Agarose Gel electrophoresis for DNA/RNA separation					

	6.General Facility.... contd from pg 4			Faculty Incharge			
	Autoclave (Sanco)	Autoclaving for sterilization purpose		Dr. Kalpana Luthra Professor, Department of Biochemistry Contact Persons Dr Vikas Sharma (Scientist II) Dr. Shubbir Ahmed (Scientist II)			
	Biosafety A2 level II (Haier)	Media preparation, DNA and RNA handling					
	Shaking incubator (Scigenics Biotech)	Incubation of bacterial cells					
	ELISA reader (Bio-Rad)	Micro plate based absorbance reader for immunoassays and calorimetric studies					
	ELISA washer (Bio-Rad)	Incubation and washing steps during ELISA					
	Water-bath cum shaker (Popular Sciences)	Incubation and shaking at various temperature range (b/w 10-90°C)					
	Bench-top analytical weighing balance (Aczet))	Weighing of reagents from 1 gm to 200gm					
	Microwave Oven (IFB)	Heating solutions, gel preparation etc.					
	Transilluminator	For visualisation and cutting of desired Nucleic acid Bands					
	pH meter	Buffer preparation					
	Magnetic Stirrer with heating block	Buffer preparation					

Note: For chargeable facilities, the payment processing is coordinated by the Project Management Unit, CCRF.

Payment can be done through the **challan** given in **annexure 1**.

For more information, or in case of any payment related difficulties, please contact the following (email preferred):

Dr. Kamal Gulati

Scientist-II (Project Management Unit), CCRF

Tel: 011-26549292

email : drkamalgulatiaims@gmail.com

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**CENTRALIZED CORE RESEARCH FACILITY
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI – 110029**



CHALLAN

Date

Booking ID

Name and Designation of PI.....

Department

Project Code

Title of Project

Facility to be used in CCRF

Amount to be paid

Mode of Payment Debit/Credit card ☐ NEFT/RTGS ☐ Project transfer ☐

Transaction ID

Signature and Stamp of P.I.

**Signature of Scientist
(Concerned Facility in CCRF)**

**Signature of Scientist
[Project Management Unit]**

**Account Officer;
Research Section (for n/a)**