RESEARCH CONSULTANCY SERVICES & MOLECULAR PLATFORMS

This include state of art facilities with well-equipped infrastructure to perform pre-clinical testing of novel molecules for their therapeutic efficacy. We have standardized a series of in vitro and in vivo assays and are in a constant process of adding more assays and making continuous improvement the existing resources. We have a team of excellent scientists with different expertise and always available for consultation. Our aim is to support the scientific community for their research needs at competitive "not for profit" service charges while providing top quality of analysis, trouble shooting and data management.

For more details: www.rgcb.res.in/res-consultancy



SHORT TERM AND LONG TERM TRAINING PROGRAMS

As part of its commitment to human resource development, RGCB permits students from Bachelor an Master levels (Science, Engineering, Pharmacy, Veterinary etc) to carry out dissertation and project work in various disciplines. Projects and dissertations may be for 1 month, 2-3 months, 4-6 months or 7-12 months.

For more details: www.rgcb.res.in/intership



TRAINING IN BIOTECH INSTRUMENTATION **SYSTEMS**

An innovative program meticulously planned to explore cutting edge technologies related to Biomedical Instrumentation Systems catering the needs of industry ready engineers with the objective of crafting professionals with practical dexterity in predominant technologies

For more details: www.rgcb.res.in/instraining



RAMAN CONFOCAL FACILITY

Raman microscope that combines high-resolution imaging with Raman spectroscopy for the analysis of inorganic and organic materials, as well as biological samples. The microscope system includes both an upright and an inverted microscope for versatile sample positioning and analysis



Qontor Raman Confocal microscope

Your yearning for knowledge

forward

hastens our journey

For more details: www.rgcb.res.in/ramanconfocalfacility



The facility provides histological and technical support to investigators. The facility has an automatic tissue processor, microtome, cryostat and Modular Tissue Embedding Unit.





Embedding Unit



(Leica RM2255)



Crvostat (Leica CM 1850)



(Leica CM 1950)

Automatic tissue processor (Leica TP1020)

For more details: www.rgcb.res.in/histologycorefacility





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Rajiv Gandhi Centre for Biotechnology (RGCB) Thiruvananthapuram

(An autonomous Institution of Department of Biotechnology, Ministry of Science and Technology, Government of India)





Rajiv Gandhi Centre for Biotechnology (RGCB)

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RAJIV GANDHI

BIOTECHNOLOGY

CENTRE FOR

DBT-SAHAJ NATIONAL FACILITY FOR MASS SPECTROMETRY-BASED PROTEOMICS METABOLOMICS AND LIPIDOMICS PLATFORMS

Facility aims to make cutting edge mass spectrometry technology available to researchers as well as the wider academic and life science industry community in the country. Being a core facility, major goal of this facility is to become a research environment for multidisciplinary research that utilizes mass spectrometry and other MS-based omics technologies to understand the disease biology and molecular medicine in the post-genomic era.







Eclipse Tribrid



Synapt G2 HDMS Q-TOF (Waters)



UltraFlextreme MALDI-TOF/TOF (Bruker)

For more details: www.rgcb.res.in/massspec



CENTRAL FLOW CYTOMETRY CORE FACILITY

The facility is equipped with different sorters and analyzers with several lasers and we also have the provision for optimised sterile sorting. The facility also conduct training program in flow cytometry





Astrios EQ

For more details: www.rgcb.res.in/flow-cytometry



CENTRAL BIOIMAGING AND CONFOCAL MICROSCOPY FACILITY

The facility is equipped with different types of confocal microscopes for various applications. It also have High-Content Imaging System with seven-channel laser light source and eight imaging channels to enable highly multiplexed assays, small animal in vivo imaging system, advanced imaging system for the automated detection of metaphases, FISH and spectral karyotyping, Dynamic Light scattering (DLS) system, advanced Rodent Endoscopy System, and fully automated tissue dissociation system



Multiphoton Confocal Nikon A1R MP



ImageXpress® Confocal HT.ai High-Content Imaging System



In Vivo Small Animal Imager (IVIS Spectrum Perkin Elmer)



Spectral Karyotyping Platform: Metasystem-Zeiss Axiolmage

For more details:



dissociator

Laser Scanning

(Leica SP8 WII)

Confocal

system



Coloview mouse endoscopy





GENOMICS FACILITY

www.rgcb.res.in/bio-imaging

A centralized facility provides services include DNA sequencing, Genotyping using DNA analyzers, Real time PCR, Microarray and Droplet digital PCR, next generation sequencing and single cells sequencing.



Chromium X (10X genomics)



6000 (Illumina)



ABI 3730xl DNA analyzer



ABI Quant Studio 5



www.rgcb.res.in/genomics-about



TRANSMISSION ELECTRON MICROSCOPE (TEM)



For more details:

Talos F200i TEM

TEM is equipped with advanced features and functions. Its accelerating voltage ranges from 20-200kV. It has a 4k x 4k ceta 16M camera which provides a large field of view and enables fast imaging. It has four applications which includes 1) Basic TEM imaging 2) STEM 3) CRYO-EM and 4) TOMOGRAPHY.

For more details: www.rgcb.res.in/ transmissionelectronmicroscope



CENTRAL BSL III FACILITY

A state-of-the-art bio-safety level-3 (BSL-3) laboratory for research on viruses with high potential for life-threatening diseases. RGCB's BSL-3 lab offers vital support for research in both regional and global pandemics, contributing to public health emergencies and the field of pandemic research. In addition, the facility collaborates with other research institutions, government agencies, and international organizations to advance its research efforts.





For more details: www.rgcb.res.in/bsl3.php



HELICOBACTER PYLORI- DRUG **TESTING PLATFORM**

The facility offers a unique service of testing the sensitivity profiles of H. pylori against antibiotics and other drug molecules

For more details: www.rgcb.res.in/helicobacter



BIOINFORMATICS FACILITY



A team of multidisciplinary ΙT scientists, experts and dedicated to bioinformatics provide services, training and technical support to researchers and students. The facility conducts hands-on training every month on various domains

For more details: www.rgcb.res.in/cbb-about.php



MOLECULAR FORENSICS & DNA TECHNOLOGIES (MFDT)

DNA fingerprinting services has been provided as a public service by RGCB for several years. The facility provide human DNA Fingerprinting services to judicial, crime investigating and law enforcing agencies. It also provides DNA Fingerprinting services to flora and fauna including RAPD, AFLP or microsatellite marker-based studies, for genetic diversity species/population/varietal discrimination and hybrid seed testing., DNA Barcoding of plants, animals and microbes. Facility also provides regular training programs in DNA Fingerprinting and DNA barcoding.

For more details: www.rgcb.res.in/dna-forensics









For more details: www.rgcb.res.in/mls.php

Diagnostics and related areas

LABORATORY MEDICINE & MOLECULAR

LMMD, is one among the 6 Grade 1 laboratory and the

only lab in India under the Department of Science and

Technology, Government of India with NABL ISO

15189-2012, NABH, and ILAC accreditations. LMMD is a

compulsory MCI recognized molecular diagnostics

rotation Centre for various medical post-graduates.

LMMD is recognized by ICMR, DBT, CDSCO, and DCGI as

authorized testing centre for testing and reporting on the

efficacy of newly developed test kits and devices. The

facility also provides training programmes on Molecular

RGCB-MLS provides all standard hematological,

microbiological, immunological and biochemical

investigations performed on the latest and completely

automated platforms. All the laboratories under this

scheme are accredited by the National Accreditation

Board for Hospitals & Healthcare Providers (NABH). The

facility also provides training programmes on Medical

DIAGNOSTICS (LMMD)

Diagnostics

For more details:

www.rgcb.res.in/laboratory-medicine

MEDICAL LABORATORY SERVICES (MLS)



Your yearning for knowledge hastens our journey forward



