C-CAMP

Centre for Cellular and Molecular Platforms

A Dept. of Biotechnology (DBT, Govt. of India) Initiative

Metabolomics
&
Glycomics and Glycoproteomics

Member of the Bangalore BioCluster
C-CAMP • NCBS • inStem

C-CAMP
Centre for Cellular and Molecular Platforms

Contact us :

C-CAMP, NCBS-TIFR, GKVK Post,
Bellary Road, Bangalore 560 065 INDIA.

Phone: +91 80 67185052/55 or 67185100
Website: www.ccamp.res.in
Email: services@ccamp.res.in

All facilities are part of the Bangalore Biocluster and we are grateful to all facility heads and management for their support

Metabolomics services

Metabolomics

Metabolomics is the systematic study of the unique chemical fingerprints that specific cellular processes leave behind and involves the identification and quantification of these compounds (<1500 Da) which make up what is often called the “metabolome”.

Through our metabolomics expertise and our technology platforms, we can help in the identification and quantification of compounds in biological fluids such as Sera, Saliva, Tissue, Urine as well as from Cell extracts.

Offerings and Expertise

- Full scan analysis of known/purified compounds
- Product ion scan (MS/MS) analysis of known/purified compounds
- Analysis of known compounds in biological matrix
- Method development for specific metabolites to know absolute quantification

---

Metabolomics platforms at C-CAMP

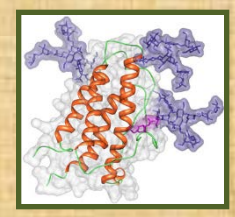
TSQ Vantage-Agilent 1290 UHPLC (LC-MS)

Shimadzu Nexera UHPLC

services@ccamp.res.in

Glycomics & Glycoproteomics

Biologics Characterization Services



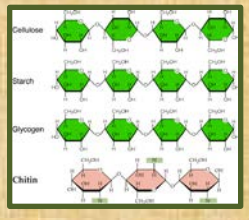
We are establishing a biologics characterization facility with an aim of providing a state-of-the-art national GLP characterization laboratory for biopharmaceutical industry. This facility will address the regulatory requirements for biologics/biosimilars development by pharmaceutical and biotechnology organizations.

As part of our Biologics Characterization services we would be providing:

1. Primary structure analysis of biologics/biosimilars using LC-MS/MS.
2. Post translational modification analysis of proteins
3. Secondary and tertiary analysis using CD, DSC and size exclusion chromatography techniques

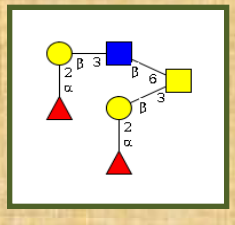
Glycomics and Glycoproteomics Services and Platforms

Polysaccharide Analysis



Involves determining the composition of various oligosaccharides from complex hydrolysates using HPLC and fluorescence detection followed by mass spectrometry analysis

Linkage Analysis



Deciphering how two sugar molecules are bonded to understand the oligosaccharides' three dimensional structure/function. GC-MS is used to obtain linkage information

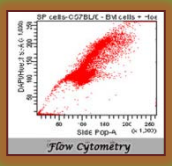
GC-MS-FID with head space trap

UPLC with diode array and fluorescence detectors

services@ccamp.res.in

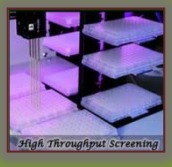
Other facilities at C-CAMP

Confocal & Fluorescence Microscopy



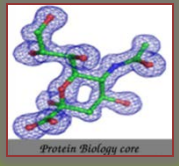
Flow Cytometry

Transgenic Fly Facility

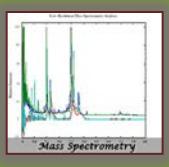


High Throughput Screening

Next Generation Sequencing



Protein Biology core



Molecular Characterization & Proteomics

All facilities are part of the Bangalore Bio cluster and we are grateful to all facility heads and management for their support

services@ccamp.res.in