

NewsYouCanUse: C-CAMP Newsletter Feb 2022



Dear C-CAMP Friend,

We kick off 2022 calendar of C-CAMP #NewsYouCanUse Newsletter with a Technology Platforms Special, an in-depth view of C-CAMP's diverse Platform Technology offerings that consist of one of India's most state-of-the-art portfolios, all accessible to you for your research questions.

Presenting 10 Stories of Impact from C-CAMP Technology Platforms vertical. Browse the Table of Content below and pick what interests you.

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Platforms in the spotlight



SARS-CoV-2 Assay Services

SARS-CoV-2 Infection Assay	In vitro Neutralization Assays
<ul style="list-style-type: none">• BSL-3 (Different Variants of SARS-CoV-2)• Readouts<ul style="list-style-type: none">◦ qRT-PCR◦ Plaque reduction◦ Cytopathic effects◦ Viability◦ Imaging	<ul style="list-style-type: none">• BSL-2: Pseudo virus (with Spike Protein)• Readout - Imaging

Variants available:

- Alpha
- Beta
- Delta

Source:

- Indian Clinical Isolates
- National Institutes of Health (NIH)

Antibody Neutralization Assays | Small Molecule Compound Testing | Testing Efficiency of Devices, Coatings, Material, etc. | Custom Assay Development

C-CAMP Bangalore Life Science Cluster **BLiSC** Contact: services@ccamp.res.in Website: www.ccamp.res.in/facility

1. COVID-19 Assay Services

C-CAMP with BLiSC is offering COVID-19 assay services for different variants.

Access for

- Antibody Neutralization Assays
 - Small molecule Compound Testing
 - Efficacy of Anti-infective Devices, Coatings Materials etc
 - Custom Assay Development
- Different variants available.

CONTACT US

2. Clinical Metabolomics

Solutions on offer

- Targeted Analysis
- Custom Bio-Analytical Methods
- Ready-to-use Panels
- Untargeted routines for biomarkers discovery
- Dedicated Clinical Sample Management Space

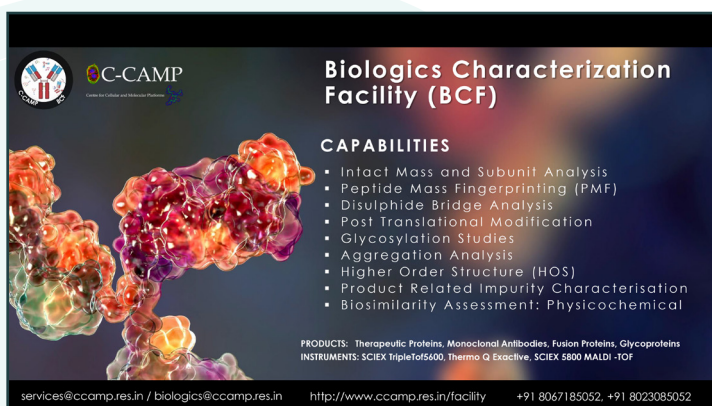
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C-CAMP OFFERING SOLUTIONS IN CLINICAL METABOLOMICS

- TARGETED ANALYSIS
- CUSTOMIZED BIO-ANALYTICAL METHODS
- READY-TO-USE PANELS
 - AMINO ACIDS, NEUROTRANSMITTERS, BILE ACIDS
- UNTARGETED METABOLOMICS FOR BIOMARKER DISCOVERY
- DEDICATED CLINICAL SAMPLE MANAGEMENT SPACE

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C-CAMP
Centre for Cellular and Molecular Platforms

Biologics Characterization Facility (BCF)

CAPABILITIES

- Intact Mass and Subunit Analysis
- Peptide Mass Fingerprinting (PMF)
- Disulphide Bridge Analysis
- Post Translational Modification
- Glycosylation Studies
- Aggregation Analysis
- Higher Order Structure (HOS)
- Product Related Impurity Characterisation
- Biosimilarity Assessment: Physicochemical

PRODUCTS: Therapeutic Proteins, Monoclonal Antibodies, Fusion Proteins, Glycoproteins
INSTRUMENTS: SCIEX TripleTof5600, Thermo Q Exactive, SCIEX 5800 MALDI -TOF

services@ccamp.res.in / biologics@ccamp.res.in http://www.ccamp.res.in/facility +91 8067185052, +91 8023085052

3. Biologics Characterization

C-CAMP Biologics, Biosimilars platform offers solutions for Biopharma product development pipelines Services:

- Intact Mass & Subunit Analysis
- PTM analysis
- Impurity Characterization
- Biosimilarity assessment
- Physico-chemical characterization
- Higher Order Structure
- Glycosylation Analysis
- PMF
- Aggregation Analysis
- Disulphide Bridge Analysis

BROWSE OUR BIOLOGICAL SERVICES

4. Medtech Rapid Prototyping Facility, µFab

Offering one-stop Idea to Pilot-Scale device development support for medtech and medical devices development.

The facility supported by BIRAC-DBT National Biopharma Mission (NBM) also comes with microfluidic flow & imaging testing capabilities.

CHECK OUR PORTFOLFIO



C-CAMP
Centre for Cellular and Molecular Platforms

C-CAMP MedTech Facility

NBM MedTech Rapid Prototyping µFab
Idea to Pilot-scale Device Development

- Design, proof of concept, prototyping and pilot-scale device development and manufacturing under one roof.
- Modern equipment for rapid conversion of ideas to products.
- ISO 13485 quality management system being implemented.
- Testing and packaging in CLASS 10000 cleanroom facility also offered.

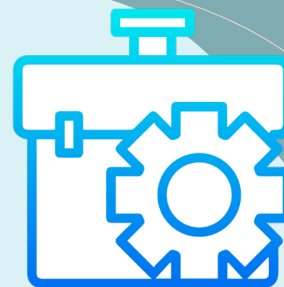
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nbm
NATIONAL BIOPHARMA MISSION

birac
BIOTECNOLOGICAL RESEARCH AND INNOVATION CENTRE

Department of Biotechnology, Government of India

Our Portfolio and Impact



C-CAMP
Center for Cellular and Molecular Platforms

GENOMICS
Next-Generation Sequencing Platforms

SCREENING
High-Throughput Assays
High-Content Imaging

MASS SPECTROMETRY
Proteomics | Glycomics
Metabolomics | Lipidomics | Biologics

MICROSCOPY
Light: Confocal & Super-Resolution
Electron: Scanning & Transmission
Atomic Force Microscopy

MICRO DEVICES
Micro-Fluidics
Micro-Fabrication

STRUCTURE
NMR Spectroscopy
X-Ray Crystallography
Cryo-Electron Microscopy

TRANSGENIC ANIMALS
Mouse
Drosophila

FLOW CYTOMETRY
Cell Sorting & Analysis

Inviting All Researchers, Scientists And Innovators To Access C-CAMP's Cutting-edge Research Facilities For Pursuing Your Path-Breaking Scientific Investigations

✉ services@ccamp.res.in <https://www.ccamp.res.in/facility>

5. What we offer

Inviting all researchers & innovators to access C-CAMP / BLiSC Technology Platforms for your discoveries, design, development & scaleup requirements!

We have

- Mass Spectrometry
Biologics, Lipidomics, Metabolomics, Proteomics, Glycomics
- Genomics
- Imaging
Confocal, Electron Microscopy, 3D Micro-Tomography
- Flow Cytometry
- NMR
- CryoEM
- Anti-SARS-CoV-2 Assay Services
- Drosophila Transgenics
- Microfluidics & Microfabrication
- Medtech Rapid Prototyping Facility

Entire portfolio -

<https://www.ccamp.res.in/facility>

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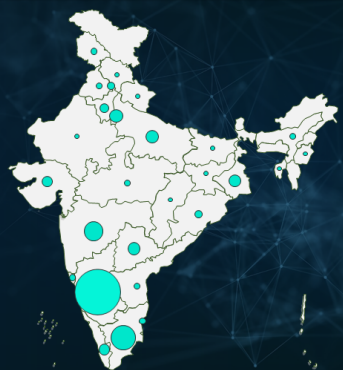


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IMPACT & OUTREACH OF TECHNOLOGY RESOURCES AT C-CAMP



RESEARCHERS & ORGANIZATIONS ACROSS INDIA CONNECTED WITH C-CAMP

- 4000+ Projects Delivered
- 1750+ Researchers Trained
- 425+ Organizations Connected
- 200+ Publications Supported

6. What we have helped achieve

- 14 Platform Technologies
- 200+ publications
- 4000+ projects delivered
- 425+ client organizations
- 1750+ personnel trained

These are indicators of the nation-wide impact on research and innovation when state-of-the-art technology resources are accessible

7. The impact we create

200+ publications & going strong!

We are delighted to have supported breakthrough science through our state-of-the-art Technology Platforms portfolio with BLiSC.

Join India's leading scientists in accessing this portfolio and advancing your research pursuits.

✉ services@ccamp.res.in

BROWSE OUR PUBLICATION LIST

200+ PUBLICATIONS

and going strong

From C-CAMP supported High-End Technology Services at the Bangalore Life Science Cluster

<https://www.ccamp.res.in/publications>

C-CAMP



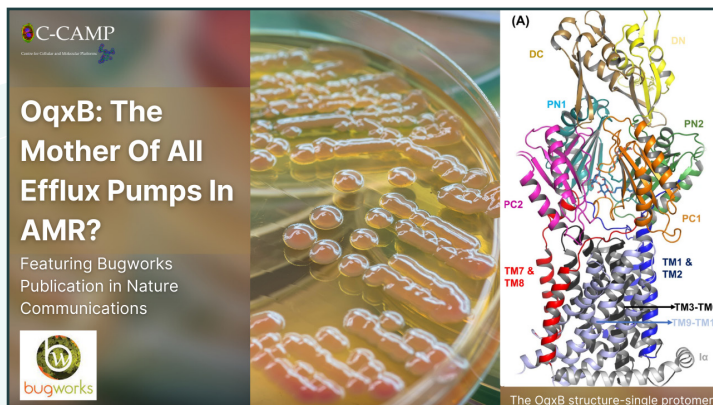
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RESEARCH OUTCOMES



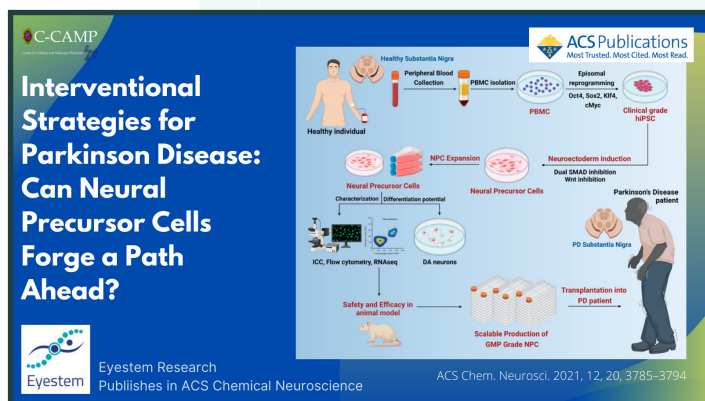
8. A Nature Communications Paper on bacterial efflux pumps to evade antibiotics

C-CAMP startup Bugworks publishes with support from our Bioincubation Facility has published their latest structure analysis study of Oqx B efflux pump in *Klebsiella p.* that is known to confer inter-species resistance against various antibiotics through gene transfer. Paper identifies key amino acids contributing to efflux of fluoroquinolone class of antibiotics.

9. A publication on impact of young neural stem-cells in intranasal injection delivery on Parkinson's Disease

C-CAMP startup Eyestem Research with support from our Bioincubation Facility has demonstrated preliminary positive impact of transplanting small-molecule mediated young, neural precursor cells NPCs derived from pluripotent stem cells PSCs through non-invasive intranasal injections in Parkinson's Disease progression. Study has been conducted in rat model.

A BLOG



PUBLICATIONS



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TECHNOLOGY TRAINING



10. Highlighting our 2021 Training Calendar

In 2021 we overcame the challenges of training in pandemic conditions by conducting 15 online courses

- Next-gen Sequencing in Clinical Genomics
- Intro to Genomics & Bioinformatics
- RNA Seq. Analysis in Genomics & Bioinformatics
- Genetic Variant Analysis
- Bangalore Microscopy Course
- Basic & Advanced Image Analysis
- Methods in Drosophila Biology
- Untargeted MS-based Metabolomics
- Medtech Pressure-based Microfluidics
- MicroCT

A packed training calendar is on the cards in 2022 as well.

✉ **training@ccamp.res.in** to know more

C-CAMP TRAINING CALENDAR

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