

Centre for Cellular & Molecular Platforms

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



C-CAMP's Technology Platforms Development • Service • Training

PROTEIN TECHNOLOGY CORE

OUR SERVICES

- **Cloning** - Gene amplification, Plasmid construction, Gene synthesis & sub-cloning
- **Expression** - Optimization, Expression across a range of scales, Refolding
- **Purification** - Affinity purification, Ion exchange chromatography, Gel filtration

OUR PLATFORMS

Bacterial – *E. coli*



Yeast – *P. pastoris*



COMING SOON

Cell free expression systems



- ❖ Rapid *in vitro* protein expression
- ❖ 96-well format to optimize expression conditions

High throughput system



- ❖ Rapid cloning, expression and purification in a 96 X 2 well format

MASS SPECTROMETRY FACILITY

Metabolomics | Glycomics | Proteomics

METABOLOMICS PLATFORM



TSQ Vantage-Agilent
1290 UHPLC (LC-MS)

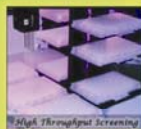
GLYCOMICS PLATFORMs



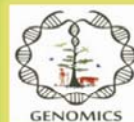
GC-MS-FID Perkin
Elmer Clarus 680



*Absciex 5600+



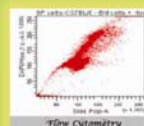
High Throughput Screening
Assay Development | Assay
Screening



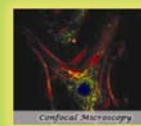
Next Generation Genomics
Genome | Transcriptome | Exome
sequencing | Data analysis



Fly Facility
Transgenics | Screening |
Maintenance



Flow Cytometry
Analysis | Sorting



Confocal & Fluorescence
Imaging facility

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