About
us

The Pondicherry centre for Biological Science and Educational Trust (PCBS) facilitates our efforts to promote research, advance learning and amplify the Ideas of Science. The PCBS research team is dedicated in helping to utilize the physical and intellectual resources as well as technical infrastructure of PCBS to be devoted for research.

Pondicherry Centre for Biological Science and Educational Trust

SUSTAINABLE RESEARCH FOR BETTERMENT OF MANKIND

- Animal cell culture & Cytotoxicity
- Biochemical,antioxidants & enzyme analysis
- Microbiology & Antimicrobial
- DNA Barcoding & Gene expression studies
- Bioinformatics & Molecular docking
- Workshops
- Internship
- Short term/Long term research project

PONDICHERRY CENTRE FOR BIOLOGICAL SCIENCE AND EDuCATIONAL TRuST

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MSME
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
Udyam Registration Number: UDYAM-PY-03-0020369

NITI Aayog
NGO DARPAN

Why
Choose Us

We focus on reliable and sustainable groundbreaking research to uncover new biological insights and develop transformative biotechnological solutions

Our
Services

Cell culture

Cytotoxicity study using [MTT, LDH, Tryphan blue dye exclusion assay]

Florescence microscopy assays

Invitro Hepato protective activity assay using HepG2 cell line model

Anti diabetic study using cell model

In-vitro anti neural damage study using SHSY5Y cell line model

In-vitro anti-inflammatory assay, phagocytic and immunomodulatory assay using LPS induced RAW macrophage cell line model

In-vitro renal protective assay using cell line model

In-vitro DNA fragmentation assay

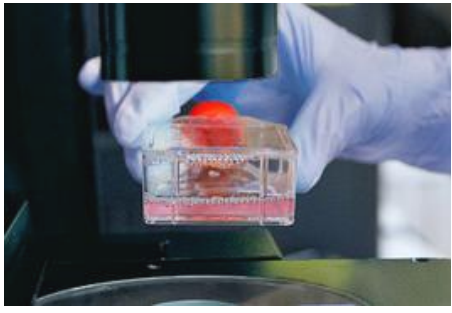
In-vitro scratch wound or wound healing assay

Cell migration assay

Cytotoxic and cell adherence potential of probiotics using cell line model

In-vitro osteogenic study using cell line model

FACS analysis



Biochemistry

DPPH radical scavenging activity

Nitric Oxide Radical Scavenging Activity

Superoxide Anion Radical Scavenging Activity

Hydroxyl Radical Scavenging Activity

Total Reducing Power assay

FRAP assay

Lipid peroxidation assay

Superoxide Dismutase

Catalase assay

Peroxidase assay

Alkaline phosphatase

Lactate Dehydrogenase

Protein Estimation

Hydrogen peroxide assay

Alpha glucosidase inhibition assay

Alpha Amylase inhibition assay

Aldose reductase inhibition assay

Anti-proteinase assay

Bovine serum albumin Protein Denaturation assay

Hemolytic assay

Qualitative phytochemical analysis

Quantitative analysis of protein, phenolics, flavonoid, total free amino acid & hydrogen peroxide

Microbiology

Antimicrobial assay

Biofilm study using XTT reduction assay

Biofilm study using crystal violet staining

Gelatinase activity inhibitory assay

Minimal Inhibitory Concentration using Resazurin dye

Time kill study

SEM sample processing and imaging

Molecular Biology

Identification of biological sample [Bacteria (16S rRNA) Fungi (ITS), Plant (matK or RBCL), Animal (COI)] based on DNA barcode sequencing

Relative quantitative PCR (qPCR) based on gene expression analysis

Realtime PCR based analysis of miRNAs

Absolute quantification PCR (qPCR) based analysis of microbial count gene copy number analysis

Realtime PCR based detection of microbial and viral pathogens Time kill study

SEM sample processing and imaging

SDS -PAGE

Agarose gel electrophoresis

16 based bacterial metagenome sequence and analysis

Bioinformatics

In-silico docking (Autodock tool) and modelling

Primer designing

Computational identification of miRNAs

Sequence submission to NCBI database and Phylogenetic tree construction

Meta-transcriptome analysis

Differential gene expression analysis(Volcano plot, Heat map, PCA, Upset plot)

For sample submission form

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