

SKILL ENHANCEMENT PROGRAMS & WORKSHOPS

- Basic Animal Cell culture techniques
- Training on Flow cytometry & Data analysis
- Training on Immunocytochemistry
- Training on Molecular techniques
- Training on Microbiology techniques
- Phytochemical extraction & purification

Flexible training programs & 1-3 day workshops on the above fields

STUDENT DISSERTATIONS & PROJECTS

Animal Cell Culture

- Anti-cancer/anti-oxidant/anti-inflammatory activity of phytochemicals/nanoparticles
- Cytoprotective activity of phytochemicals
- Anti-angiogenesis activity of test substances
- Anti-Diabetic activity of test substances
- Study of Matrix Metalloproteinases (MMPs) as inflammatory markers

Flow Cytometry

- Apoptosis marker expression studies
- Inflammatory marker expression studies
- Plant ploidy analysis by flow cytometry

Molecular & Microbiology

- Isolation of microbes, enzyme production and characterization
- Bacterial and fungal identification by Sanger sequencing
- Antimicrobial studies
- Gene expression studies by PCR
- Protein isolation, purification and profiling by SDS PAGE

Phytochemistry & Nanotechnology

- Phytochemical isolation, purification, characterization and biological activity
- Synthesis, characterization and biological activity of nanoparticles

Many more project modules are available

CELLKRAFT

Excellence Assured



Cell culture & Stem cell services

Flow cytometry services

Molecular Biology services

Microbiological services

Phytochemistry services

Nanotechnology services

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CELLKRAFT BIOTECH PVT. LTD.

Contract Research | Molecular Diagnostics | Stem Cell and Biotherapeutics

ABOUT US

CellKraft Biotech is a multi-disciplinary contract research organization (CRO) with an expertise in R&D activities in drug screening and assay biology, medicinal chemistry, *in vitro* pharmacology and toxicology. With a major focus on animal cell culture based research our in-house R&D programs focus on the development of *in vitro* 3D models of human tissue for testing of pharmaceuticals and therapeutic purposes. Our diagnostics services include all kinds of Flow cytometry based tests. We provide Stem cell and Biotherapeutics services through our collaborations with clinicians from various fields of health care.

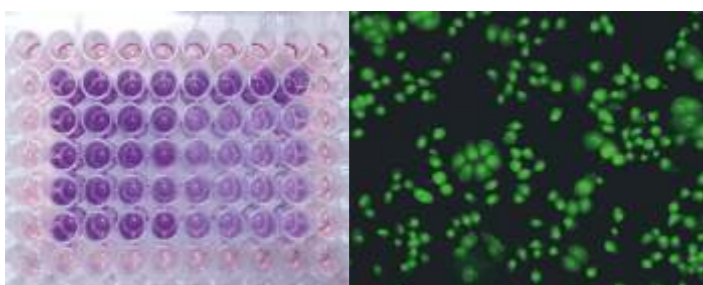
Contract Research | Molecular Diagnostics | Stem Cell and Biotherapeutics

“We strive in executing every project with excellence. Integrity is the core value at CellKraft Biotech. Client satisfaction, quality, safety and ethics are important to us even in the toughest of circumstances.”

Cell Culture Services

- Cytotoxicity: MTT Assay/ WST-8 Assay (CCK-8)
- Cell Senescence: β -Galactosidase Assay
- Colony Forming Units Assay
- Anti-Angiogenesis: HUVEC Tube formation assay
- Cell Migration Assay
- Scratch/ Wound Healing Assay
- Cytoprotective Assays
- Drug Absorption Assay
- Autophagy assay
- Transdermal Permeability Testing
- Blood brain barrier model for drug delivery testing
- Biocompatibility testing
- Primary cell isolation, culture and characterization
- Quantitative Marker analysis by ELISA

Development of *in vitro* 3D models of human tissue for biocompatibility testing.



Flow Cytometry Services

- Stem cell marker analysis
- Cancer marker analysis
- Differentiation Markers
- Annexin V Apoptosis/ Necrosis assay
- DNA Fragmentation Studies by TUNEL Assay
- Mitochondrial Membrane potential($\Delta\psi$) JC-1 assay
- Cell Cycle Analysis (Propidium Iodide staining)
- Anti-ROS assay by H2DCFDA staining
- Glucose uptake assay (2-NBDG)
- Intracellular markers: Casp-3, Bcl-2, COX-2, TNF- α
- Cell Surface markers: VEGFR2, CD44, CD45, CD56
- Immunology: Cytokines/Interleukins/CD-4/CD-8
- Hematology: Immunophenotyping/ leukocyte analysis/ platelet analysis
- Microbiology: TUNEL assay/ Cell viability/ Food safety/ Immunodetection of bacteria
- Botany and Genetics: Genome content/ Ploidy analysis



Stem Cell Services

- Isolation & characterization of MSCs & HSCs
- Neuronal differentiation studies
- Osteogenic differentiation studies
- Adipogenic differentiation studies
- Dendritic and other immune cell generation from HSCs/MSCs
- Isolation of Satellite cells
- CFU assay

Fluorescence Microscopy Services

- Immunocytochemistry (ICC) cellular marker analysis
- Live/ dead assay: Acridine orange - PI staining
- Apoptosis studies
- Mitochondrial staining
- Genotoxicity: Micronucleus assay
- Microbial viability assay
- Karyotyping



Molecular Biology Services

DNA/RNA Services

- PCR, ELISA, AGE, FISH, RAPD, RFLP
- Construction of cDNA Library
- DNA/RNA Sequencing
- Bacterial Cloning and transformation
- DNA Binding, Cleavage and Fragmentation

Protein Services

- Protein/ Peptide isolation and purification
- Protein Quantification
- SDS-PAGE
- Gelatin/ Casein Zymography
- Western blotting

Nanotechnology Services

- Synthesis and characterization of Nano-Materials
- SEM and Particle size analysis
- Functionalization of Nanoparticles
- Biological Activity of Nanoparticles

Sequencing/Identification Services

- Bacterial identification by 16S rRNA sequencing
- Fungal identification by 18S rRNA/ ITS sequencing
- Plant identification by DNA barcoding

Microbiology Services

- Isolation and culture of Bacteria/ Fungi
- Anti-bacterial/ anti-fungal activity testing
- Minimum Inhibitory Concentration (MIC) assay
- Pre-Biotic/ Pro-Biotic Assay
- Enzyme Production/ isolation/ characterization
- Sterility/ contamination Testing
- Anti-Quorum Sensing Activity

Phytochemistry Services

- Soxhlet extraction of phytochemicals
- Phytochemical quantification
- Purification by Column/ TLC
- Biological Activity of plant extracts/ phytochemicals

OUR STRENGTHS

Wide range of services
State-of-the-art cGLP & cGMP labs
Interdisciplinary research
Customized research services

Great turn-around time
Dedicated and highly skilled workforce
Support in data interpretation
Innovative approach to research

