

Services provided in BSRC

Microbiology Laboratory

1. Antimicrobial susceptibility tests
2. Antibiofilm assay
3. Isolation and identification of Bacteria and fungus from various samples
4. Assessment of virulence factors
5. Antiadhesion, time kill assay

Analytical Laboratory

1. Method development & validation by UV Spectrophotometry.
2. Qualitative & Quantitative studies of herbal Extract /Nanoformulation using chromatographic techniques (HPLC, UPLC ,HPTLC)
3. Finger Printing Analysis using HPTLC
4. Detection of heavy metals (AAS)
5. Lyophilization
6. Various Extraction process using soxhlet and rotatory evaporator
7. In vitro drug release studies & ex-vivo studies using Franz diffusion cell and dissolution Apparatus (nanoformulation)
8. Viscosity Analysis
9. Probe sonication ,Bath Sonication, PH Meter

Molecular Biology Laboratory

1. PCR and RT-PCR Based
2. Genotyping
3. SNP/SNV analysis
4. Pathogen Detection
5. Gene Expression Profiling
6. Methylation Profiling
7. ELISA based
8. Biomarker detection and quantification

9. Flow Cytometry Based
10. Cell Cycle analysis
11. Apoptosis analysis
12. Lymphocyte quantification
13. Stem cell analysis by surface markers
14. Estimation of ROS
15. Caspase expression profiling
16. DNA fragment analysis

Cell Culture Laboratory

1. Proliferation assay – MTT Assay
 - Tryphan Blue Assay
 - Crystal Violet Assay
2. Differentiation of cell lines – Alizerin Red Assay
3. Migration assay for wound healing
4. Growth curve assay
5. Comet assay
6. DNA fragmentation studies on cell line
7. Cellular uptake studies
8. Isolation of primary cell line
9. RNA/DNA isolation from cell lines
10. Cell Cycle Analysis
11. Apoptosis