

PREFERRED PRACTICED PROVEN!

JCDC In-Vitro Research Laboratory

JCDC Laboratory has a Real-Time Cell Monitoring System, which allows label-free, cost-effective and real-time monitoring of cellular processes such as cell proliferation, cytotoxicity, adhesion, viability, invasion, and migration, using electronic cell sensor array technology.

Advantages over the conventional end-point assay:

- Real time platform
- Enables label-free monitoring
- Enables to look at cell growth phenotypes
- Continuous monitoring normally missed by single endpoint assays
- Complete & continuous data profiles from short-term (minutes) to long-term (days) cell responses
- Analysis of effects of drugs without exogenous labels that invade and disrupt the natural cell environment.
- Powerful cell analysis software (dose response curves, IC50 / EC50 calculation, data normalization, slope, & doubling time)

Cell-based assays for both high throughput screening and research environments :

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| • Compound-mediated Cytotoxicity/ Apoptosis | • Cell Invasion and Migration
• Cancer Research, Immunology, Stem Cell Research, Toxicology (cytotoxicity of agents & effects of cytokine release), etc. |
| • Cell-mediated Cytotoxicity | • Cell Adhesion and Cell Spreading |
| • Carcinogenicity and mutagenicity assays | • Receptor-mediated Signalling
• Receptor tyrosine kinase activation
• Nuclear Hormone Receptor Signalling
• GPCR Signalling |
| • Virus-mediated Cytopathogenicity | • Endothelial Barrier Function |
| • NK cell-mediated cytotoxicity | |



Molecular Diagnostics

A stratified approach to diagnostics

Applications in molecular microbiology, molecular genetics and molecular oncology.

Pathogen Detection

- Through nucleic acid (DNA/RNA) analysis
- Offers rapid & sensitive detection of viral, bacterial & protozoan pathogens
- Broad range of sample types (sputum, urine, swabs etc)

GenoType MTBDRplus

- Identification of the M. tuberculosis complex and its resistance to Rifampicin and/or Isoniazid

- From pulmonary clinical specimens (microscopic AFB positive or negative) or cultivated samples
- Diagnosing patients after treatment failure and relapse

Infectious Disease profile

Metabolic markers

HLA typing

Enzyme-Linked Immune Sorbent Assay (ELISA)

Immunogenicity assays: Identification of monoclonal antibodies and neutralizing antibodies for biosimilars

Biomarkers

- Autoimmune Disease
- Anaemia
- Bone Disease
- Cardiac Markers
- Infectious Disease
- Metabolic Markers



For related information & queries, get in touch with us at:

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