

# TRAINING IN CELL CULTURE & DRUG SCREENING

## Ist Week - Lab Safety & Cell Culture Procedures

Day 1: Cell Culture Lab Safety, Microscopy, Basics of Cell Culture

Day 2: Preparation of Media, Reagents For Cell Culture

Day 3: Isolating Cells and Growing Them in Culture Media

Day 4: Microscopy & Imaging of cells - Inverted Microscope

Day 5: Cell Counting



## IIInd Week - Kinetic Cell Health and Viability Assays

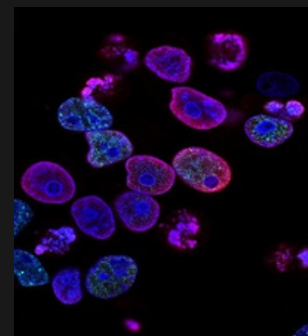
Day 1: Cell Migration and Invasion Assays

Day 2: Apoptosis Assay For Cell Health Cells

Day 3: Detection of Mycoplasma Contaminations by PCR

Day 4: Eradication of Mycoplasma Contaminations

Day 5: Cell Viability Assay



## IIIrd Week - Cell based Assay For Drug screening

Day 1: Metabolic activity assays

Day 2: LDH-Release Cytotoxicity Assay

Day 3: ATP Migration Kinase Assay

Day 4: DNA extraction and analysis from cell

Day 5: RNA extraction and analysis from cell



## IVth Week - Reporter Gene assays for Drug Screen

Day 1: First Strand cDNA synthesis

Day 2: Transfect the cells with the reporter gene plasmid

Day 3: Qualitative RT-PCR Analysis for reporter gene

Day 4: Real Time Quantitative RT-PCR Analysis for reporter gene

Day 5: Data Analysis of Gene Expression Studies



## Vth Week - Project Work

We will share our ideas and decide for small piece of research in limited time frame.

**Cost of Training :** Training Only -INR 14,000 / -  
Training + Project - INR 16,000/-

**Duration :** 80 to 100 Hrs or 4 to 6 Weeks



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