TRAINING IN NANO-BIOTECHNOLOGY

Ist Week - - Basics of Nanotechnology & Synthesis of Nanoparticle

Day 1: Lab safety and Analytical Procedures , Chemical & Reagent Preparation Day 2: Extraction & Purification of Curcumin with raw powder Day 3: Chromatography analysis of purified curcumin Day 4: Synthesis of Nanoparticles using extracted curcumin Day 5: Analysis of synthesised Nanoparticle Note - SEM will be outsourced

IInd Week - Cell based Assay - MTT, MIC & Inhibitory Concentration

Day 1: Cell Culture Lab Safety, Microscopy, Basics of Cell Culture Day 2: Culture of a Continuously Growing Cell Line Day 3: MTT Assay for cytotoxicity analysis Day 4: Inhibition Concentration (IC50) with curcumin Day 5: Anti-Microbial assay of extracted crude extract (ELISA based)

IIIrd Week - Preparation of Lipid-mRNA Nanoparticle

Day 1: RNA Extraction, Quantification & mRNA Purification Day 2: Preparation of mRNA-Loaded Lipid Nanoparticles Day 3: Characterization of Lipid-mRNA Nanoparticle Day 4: Evaluation of Cytotoxicity of Lipid-mRNA Nanoparticle Day 5: Evaluation of Lipid-mRNA Nanoparticle Transfection

IVth Week - Gene Expression Study of Lipid-mRNA Nanoparticle

Day 1 : RNA Extraction, Quantitative & Qualitative Analysis of RNA Day 2: mRNA Purification & First Strand cDNA Synthesis Day 3: Qualitative RT-PCR Analysis for gene expression Day 4: Quantitative RT-PCR Analysis for gene expression Day 5: Quantitative Real Time PCR Data Analysis

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 13,000 / -Training + Project - INR 15,000/-

Duration: 80 to 100 Hrs or 4 to 6 Weeks

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