

# TRAINING IN HERBAL CHEMISTRY

## Ist Week - Basics of Herbal Analysis Lab & Analytical Procedures

Unit 1: Lab safety and Analytical Procedures , Chemical & Reagent Preparation

Unit 2: Soxhlet Extraction, Drying the solvent by Vacuum Rotary Evaporator

Unit 3: Qualitative assay of Herbals - Assay of Alkaloids, Flavonoids, Terpenes, Glycosides, Free Glucose, tannins, Anthraquinone, Saponins, Phenols etc

Unit 4: Quantitative assay of Total Phenolics

Unit 5: Quantitative assay of Total Flavonoids



## IIInd Week - Cell based Assay, MIC & Anti Microbial Assay

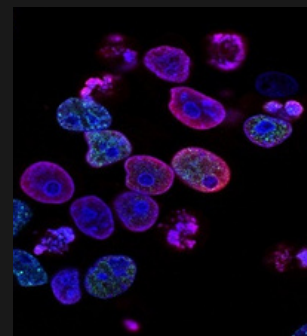
Day 1: Cell Culture Lab Safety, Microscopy, Basics of Cell Culture

Day 2: Culture of a Continuously Growing Cell Line

Day 3: MTT Assay for cytotoxicity analysis

Day 4: Determination of minimum inhibitory concentration

Day 5: Anti-Microbial assay of extracted crude extract ( ELISA based )



## IIIrd Week - Antioxidant / Oxidative Stress Assay

Day 1: Inhibition Concentration (IC50) of Antioxidant activity

Day 2: In vitro radical scavenging assay & data analysis

Day 3: Reducing Power assay of herbal extract

Day 4: Analysis of Catalase test in herbal sample

Day 5: superoxide dismutase (SOD) activity



## IVth Week - Chromatography Separation & Analysis

Day 1: Purification of herbal extract by column chromatography

Day 2: Analysis of fractions by TLC

Day 3: Spectrophotometric analysis of crude fraction

Day 4: Basics of High Performance Liquid Chromatography

Day 5: Sample Analysis & Data Analysis of HPLC



## 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 10,000 / -  
Training + Project - INR 12,000/-

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



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