### **Brainstorm**

Brainstorming is a group creative technique by which efforts are made to find a conclusion for a specific problem by gathering a list of ideas spontaneously contributed by its members.

## The Catalyst Club

**Activity:** Development of reaction database

## **Objectives:**

- 1. To identify reactions that are used to produce different types of pharmaceutical intermediates & products.
- 2. To facilitate the choice of the reaction conditions.
- 3. To evaluate the reaction pathway in terms of yield, cost and sustainability metrics.

# Synthesis of diclofenac: (NSAID's)

2,6-dichloroaniline 2-chlorobenzoic acid

Diclofenac sodium

2-(2,6-dichloroanilino)phenyl]methanol

# The Analytical Club

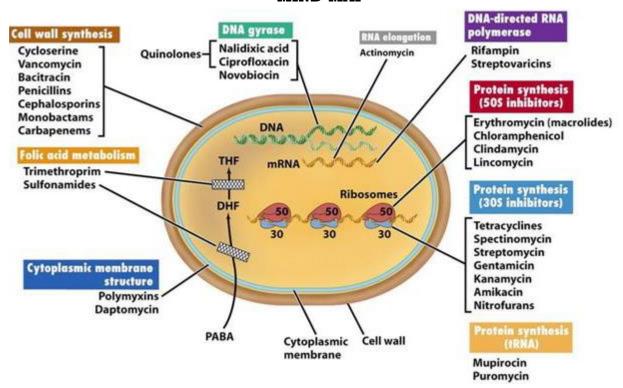
**Activity:** Introduction to modern analytical instruments and its application in pharmaceutical Industry.

# Programme Objectives: -

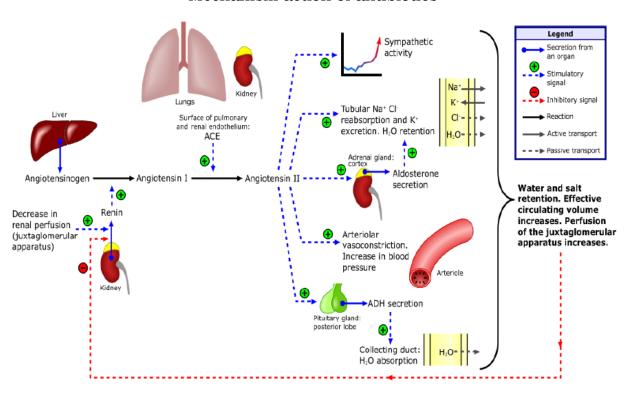
The objectives of the programme are to enable the students to:

- 1. Appraise the latest advances in the field of Pharmaceutical Analysis
- 2. Discuss the principles of different analytical techniques and apply them in professional practice
- 3. To proficiently use various analytical instruments for analysis of drugs and pharmaceuticals.

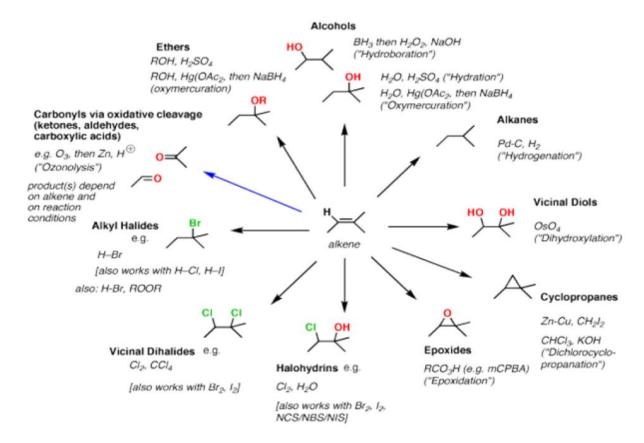
#### MIND MAP



## Mechanism action of antibiotics

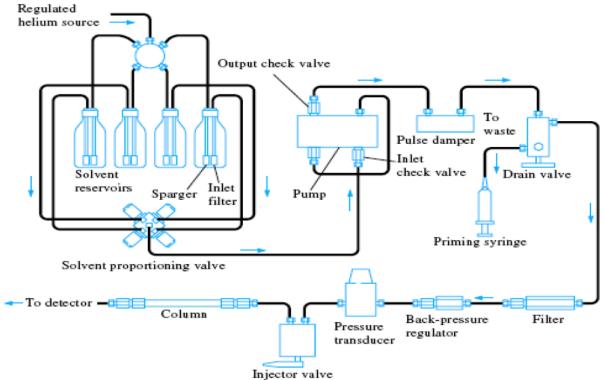


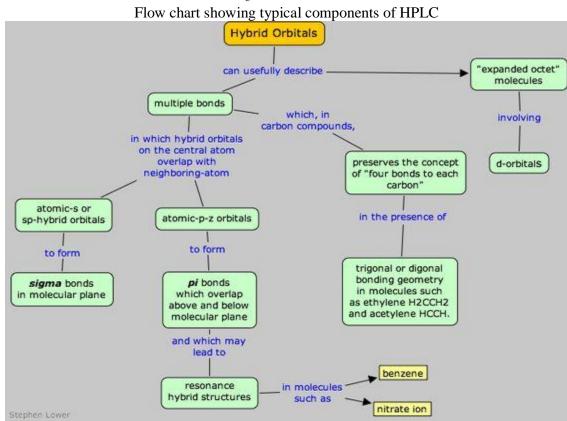
Renin-angiotensin-aldosterone system



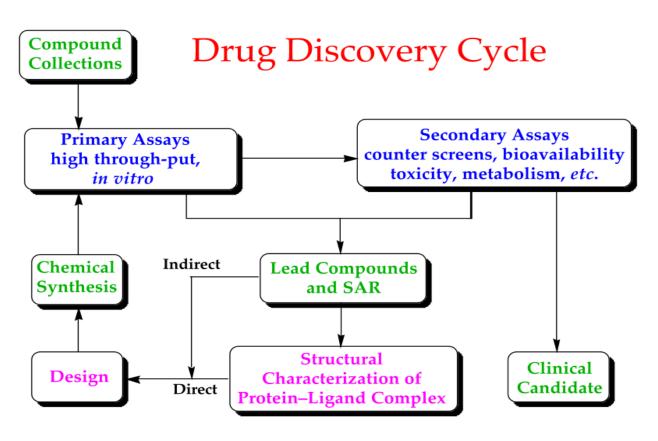
Addition and oxidative cleavage reaction of alkenes

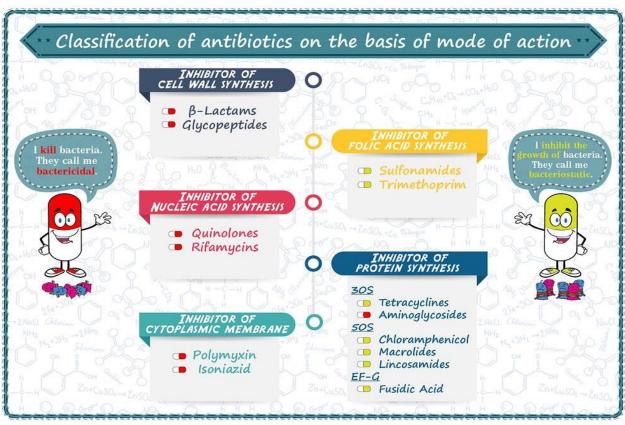
#### **FLOW CHART**

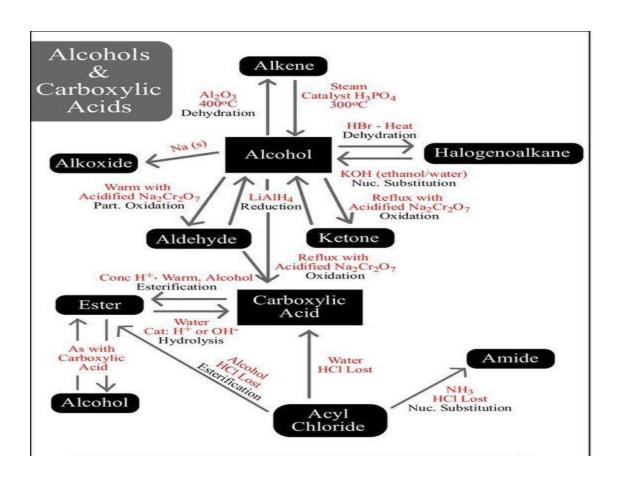




Hybrid orbital







# **CHARTS USED IN TEACHING**

