

## **Effect of metabolism on drug activity and importance of new drug development**

Phase II reactions usually result in inactive metabolites,

**As a result of phase I reactions;**

Reduction of pharmacological effect

Increased pharmacological activity

Increased/reduced toxicity

A changing pharmacological effect may be observed.

- Metabolites can be examined to switch to less toxic compounds.
- Since metabolism facilitates drug excretion, it is also important in designing compounds with modified duration of action.
- Knowledge of metabolism can also help in the development of compounds with better absorption and transport properties.