

# PHARMACOGENETICS AND PHARMACOGENOMICS

## PHARMACOGENETICS, THARMACOGENOMICS

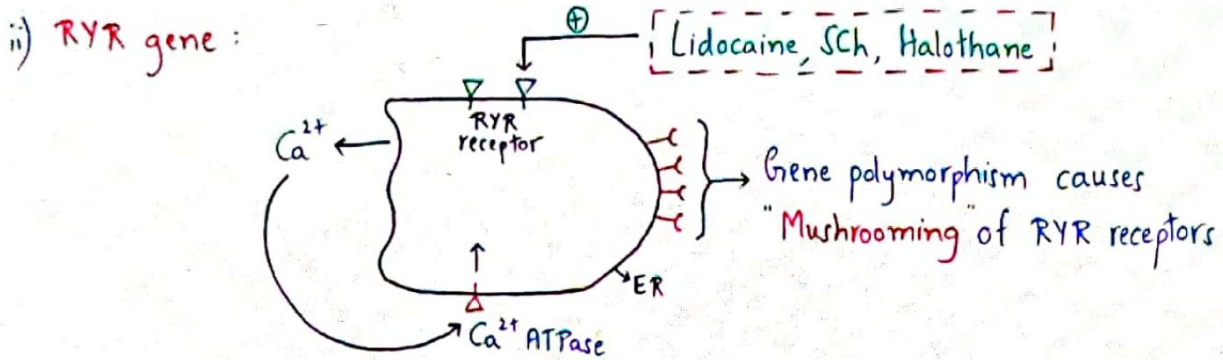
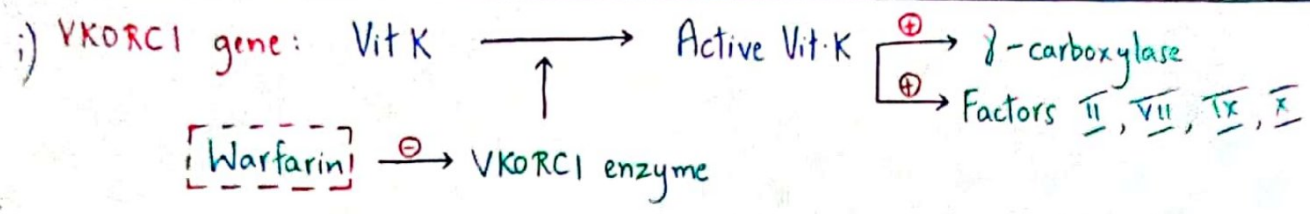
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Pharmacogenetics & Pharmacogenomics

- Pharmacogenetics: Effects of genes on drugs  
Genes code for  $\left\{ \begin{array}{l} \text{Receptors} \\ \text{Enzymes} \end{array} \right\} \rightarrow$  Effects drug dosage
- Pharmacogenomics: Individualization of drug therapy based on Pharmacogenetics

## TARGET POLYMORPHISM

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ATP depleted hugely  $\rightarrow$  Excess heat released  $\rightarrow$  Malignant hyperthermia

- iii) **ACE gene:**  $\downarrow$  effect of ACE
- iv)  **$\beta_2$  receptor gene:**  $\downarrow$   $\beta_2$  agonist effect