

Acetate Pathways

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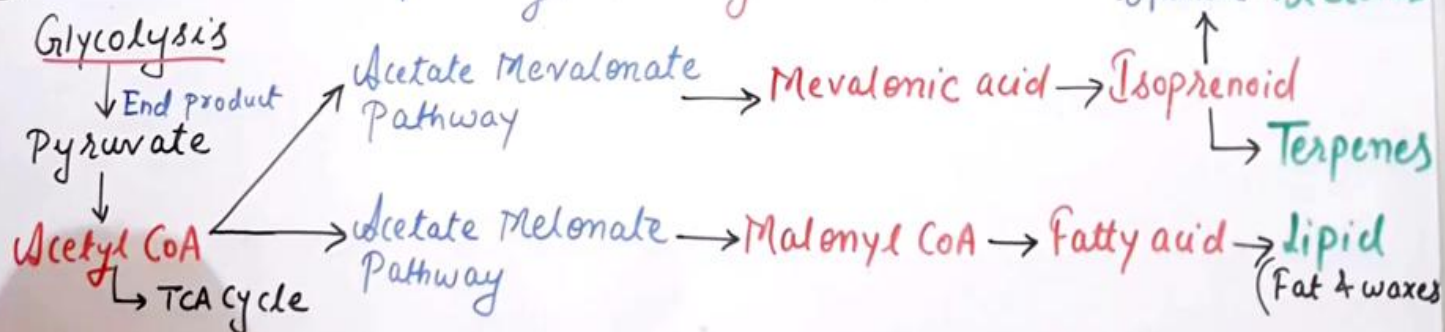
① Acetate occupies **Central** position in relation to general metabolism

Acetate $\begin{cases} \rightarrow \text{Straight chain Compound} \\ \rightarrow \text{Aromatic Compound} \end{cases}$

Acetate pathway - Two main route

① Acetate Mevalonate Pathway / Isoprenoid pathway \rightarrow Terpenes & Steroids

② Acetate Mevalonate pathway \rightarrow Fatty acid + polyketides



① Acetate Mevalonate Pathway / Mevalonic acid pathway / Isoprenoid pathway

\rightarrow Contributes $\frac{1}{3}$ rd known secondary metabolites

\rightarrow Biosynthesis of Active building block (universal precursor) Isoprene unit (C_5) for all isoprenoid compounds (secondary metabolite)

\rightarrow Isopentenyl pyrophosphate (IPP)

\rightarrow Dimethylallyl pyrophosphate (DMAPP)

Block diagram of Biosynthetic pathways

