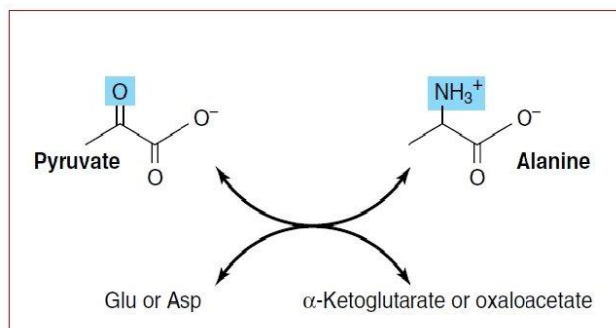
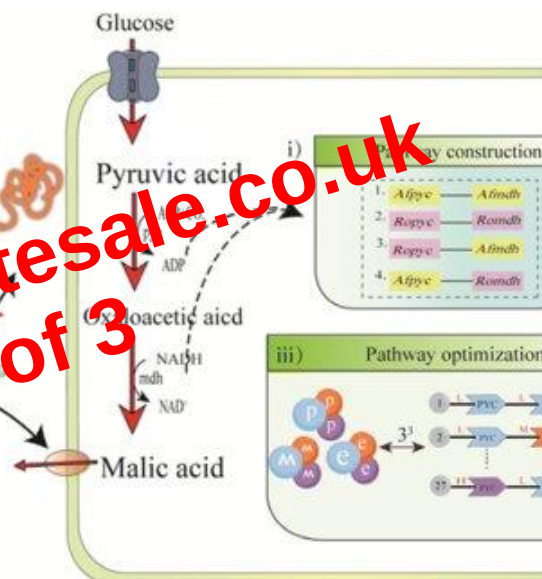


Formation of alanine



- Malic Acid formation:**

It takes place in the presence of NADPH+H and CO₂. It is catalyzed by the malic enzyme. This product takes part in the citric acid cycle.



- Oxaloacetic formation:**

This reaction takes place in the presence of ATP and CO₂. It is catalyzed by pyruvic carboxylase, a biotin-containing enzyme, the reaction is stimulated by excess of Acetyl CoA. The importance of Oxaloacetate in addition to its role in citric acid cycle is that it can give rise to glucose (gluconeogenesis).

