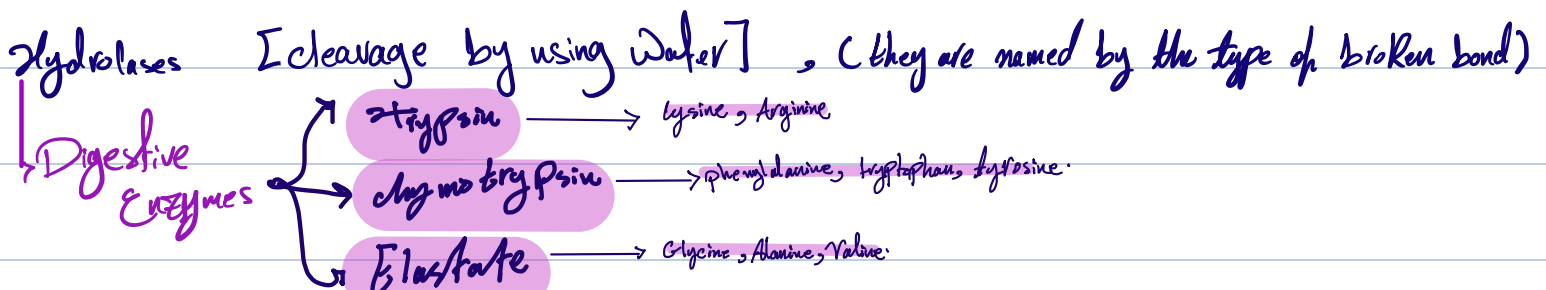
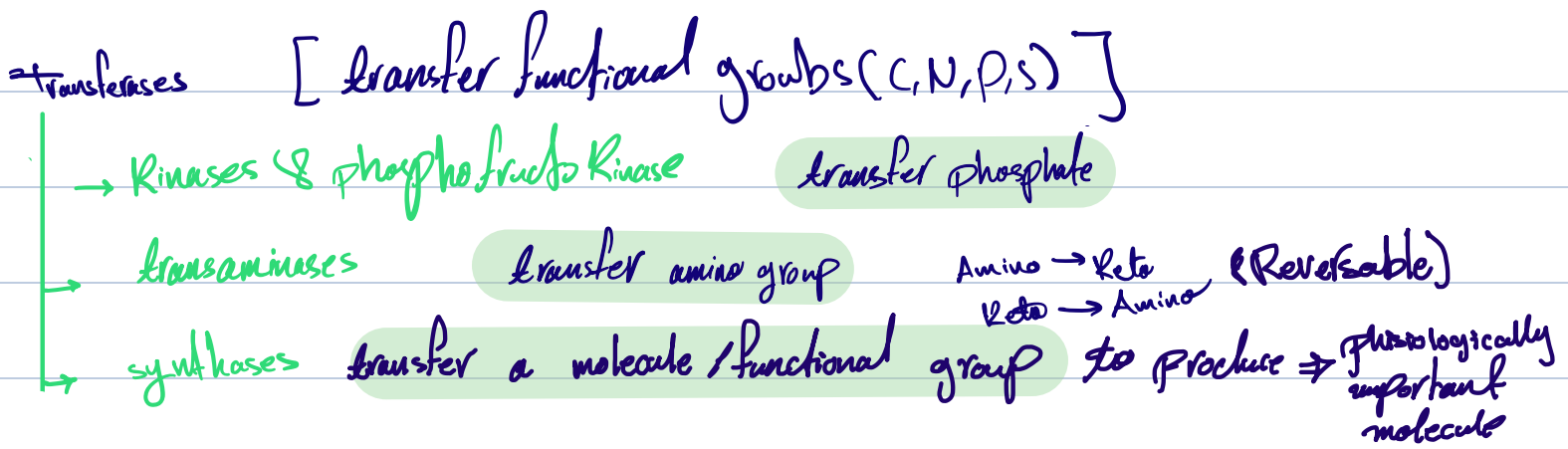
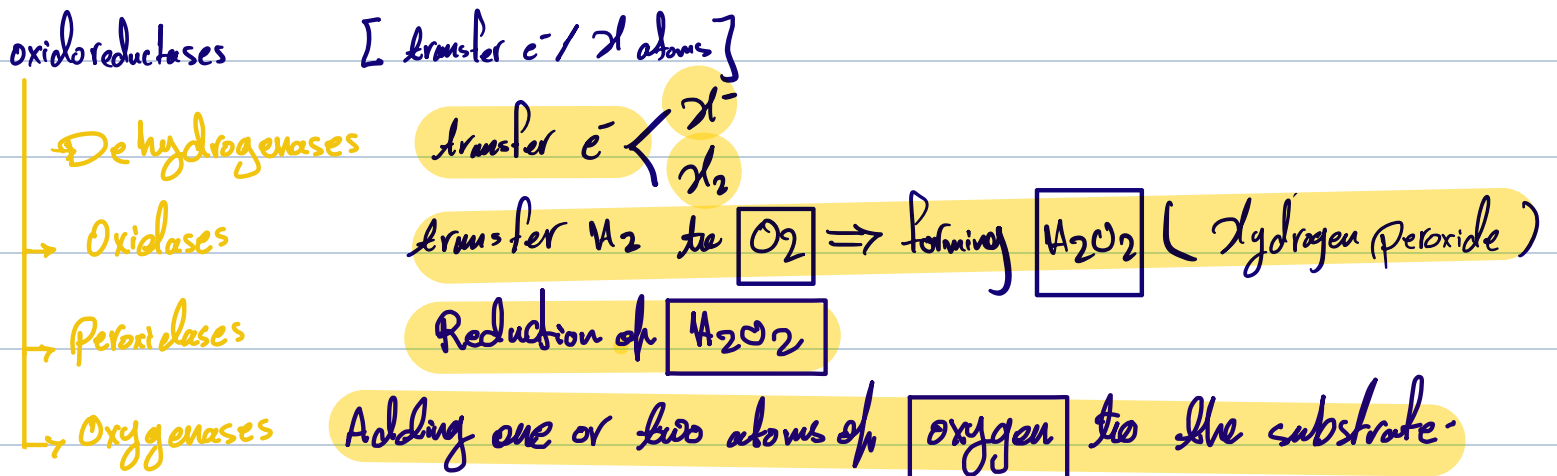
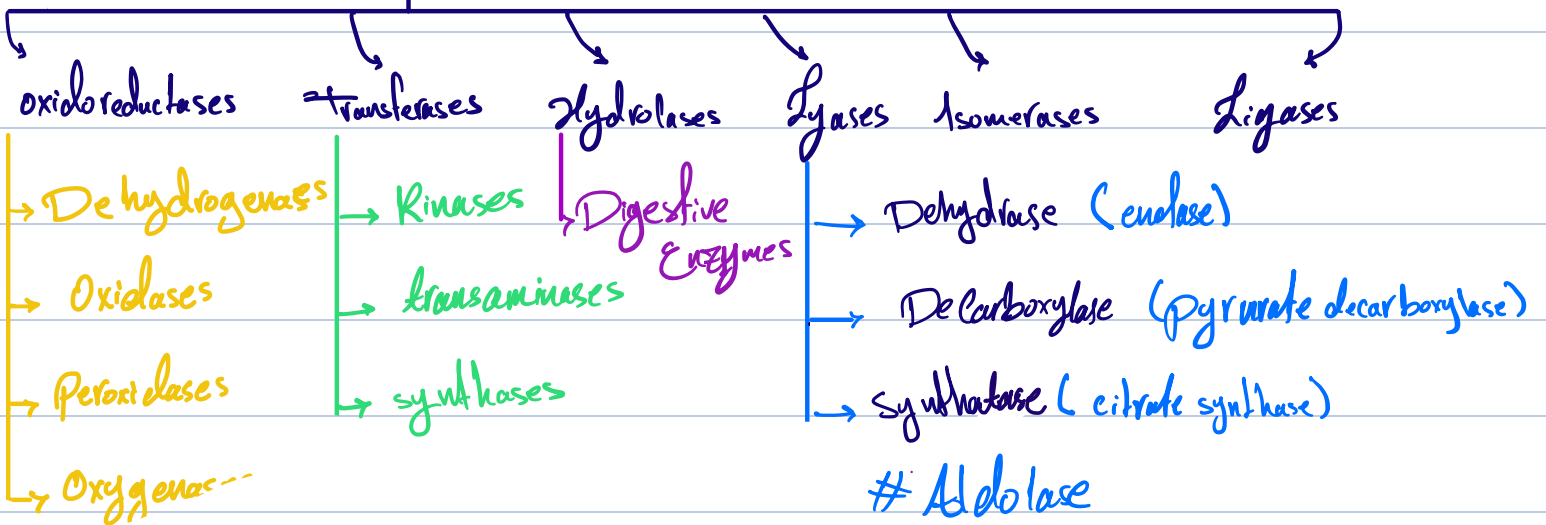


Enzymes



Ligases [cleavage with no need for water]

- Dehydrase (enolase) Removal of H_2O to form double bond.
- De Carboxylase (pyruvate decarboxylase) Replacement of a carboxylic group by a hydrogen
- Synthetase (citrate synthase) Addition of a small molecule to a double bond OR when the direction of the reaction favors the formation of a C-C bond.

Aldolase

↳ Breaks down fructose 1,6 bisphosphate into dihydroxyacetone phosphate & glyceraldehyde 3-phosphate.

Isomerase

isomerization / rearrangement of bonds & atoms in the same molecule OR changing the place of a P group

Rearrange ⇒ isomerase • Phosphoglucisomerase isomerizes glucose-6-phosphate to fructose-6-phosphate.

Movement of phosphate ⇒ mutase • Phosphoglycerate mutase transfers a phosphate group from carbon number 3 to carbon number 2 of phosphorylated glycerate.

Ligases [connects two molecules together (they use energy)]

the rxn accompanied by high energy compound