B.Sc-4th sem Unit-2 (CC-410)

GLYCOLYSIS

BY

Dr. Amresh Kumar

Dept. of Zoology, PWC, Patna-01

Defination



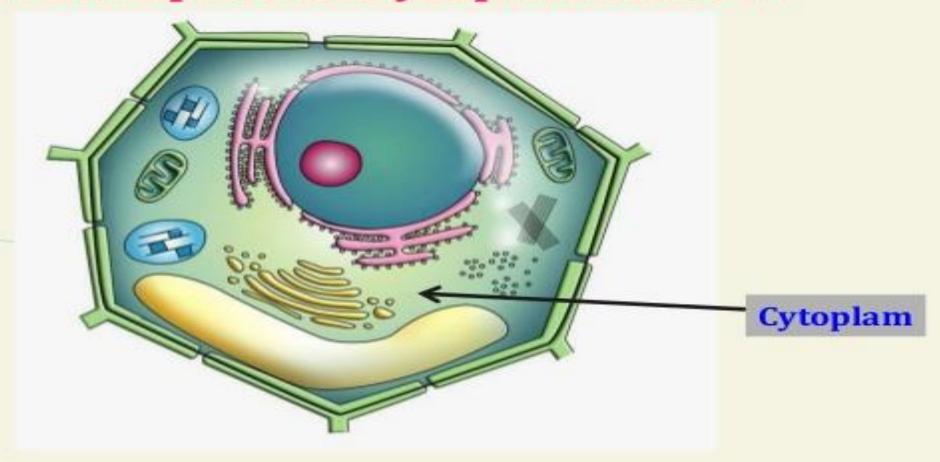
- Glyco- Glucose
- Lysis -Breakdown

The enzymatic, stepwise breckdoun of glucose into two molecule of pyruvic acid in the presence of various enzymes in side cytoplasm is known as glycolysis.

Site



It is take place in cytoplasm of cell

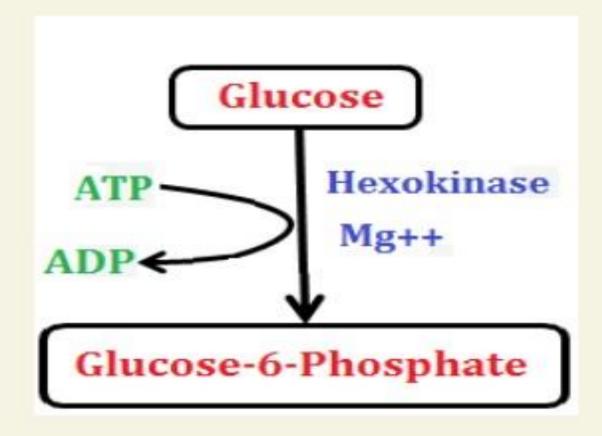


History

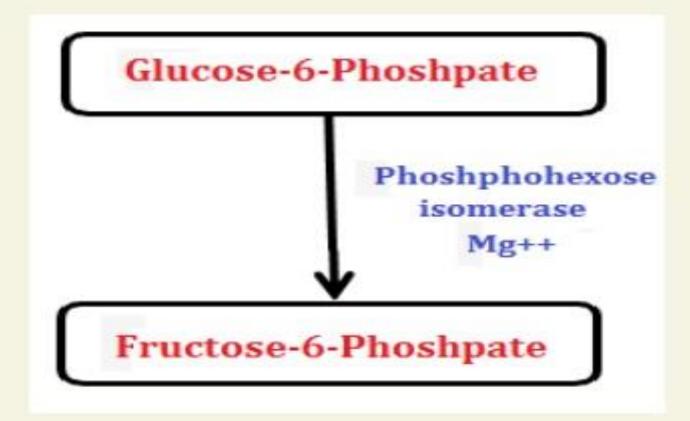
- Different steps were discovered by Gustav Embden, Otto Meyerhof, and Jacob Karol Parnas.
- Hence it is also called as EMP Pathway



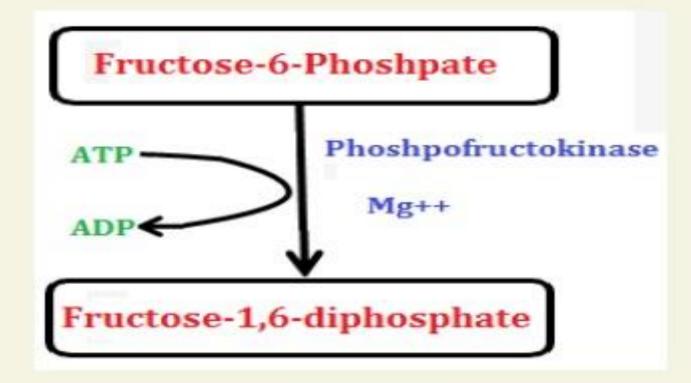
1. Phosphorylation-I



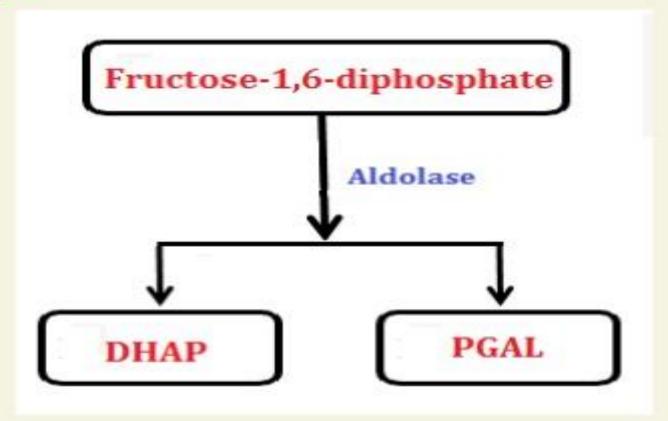
2. Isomarisation-I



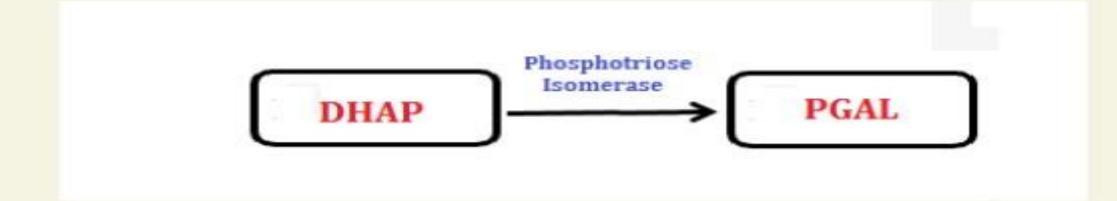
3. Phosphorylation-II



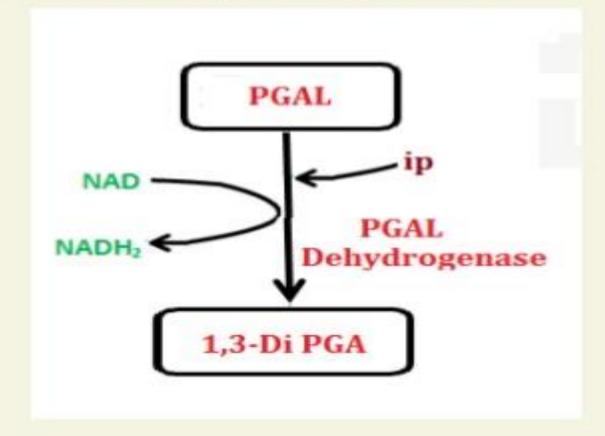
4. Cleavage



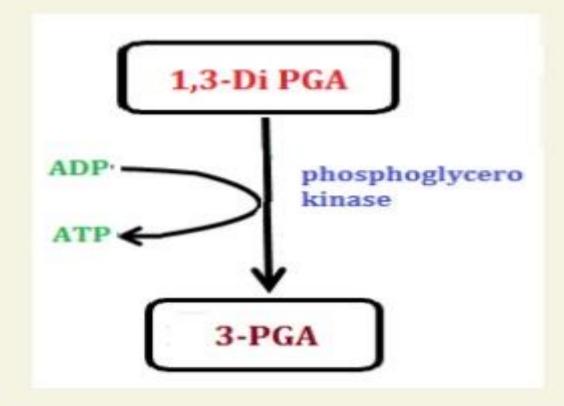
5. Isomerization-II



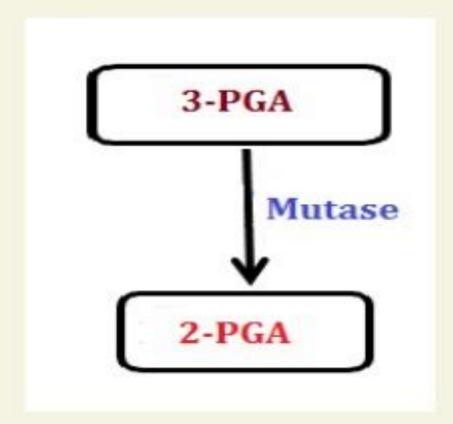
6. Oxidation & Phosphorylation



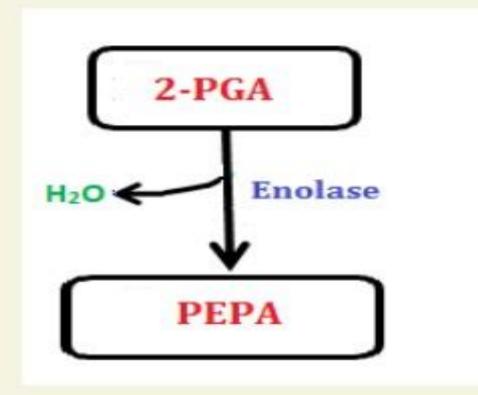
7. ATP Generation-I



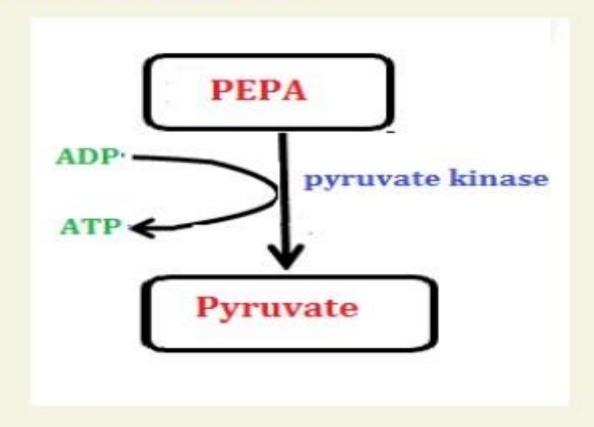
8. Isomerisation



9. Dehydration



10. ATP Generation-II







 Glucose is breakdown into two molecules of pyruvate.

ATP Produced

NADH₂ Produced



Thank You