**HEPAWIN (MoA):-**

***HEPAWIN works as a*** *:*

1. Detoxifier
2. Regenerator &
3. Metabolizer

As a Detoxifier **Hepawin** converts toxic AMONIA in to no Toxic) **URIA cycle:-**

**Ammonia (NH3) + CO2 +ATP** 🡨 🡨 🡨 🡨 🡨 🡨 🡨 **Ornithine Urea**

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**I** Split with the help of **ARGINASE**

**Carbamyl Phosphate** /\

( an enzyme responsible for Detoxification) I

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**Citrulline 🡪 🡪 Arginosuccinic Acid (**known as ARGININE**) 🡪🡪**

***(ARGINASE AN ENZYME FOUND IN LIVERKIDNY AND SPLEEN)***

**2) REGENATOR:-**

**N**ormal liver structure and function depends upon the balance between cell Death and **regeneration.** The normal life span of liver cell is about 10 days.

When there is a needs of additional HEPATOCYTE, **QUIESNCENT** cell stimulate by mediators to move in to the **prime stage** ( G 0 –G1 ) then Growth factor can stimulate DNA synthesis and cellular replication take place.

**3)METABOLISM:-**

Hepawin improves energy balance by CREB CYCLE or TCA Cycle

There are series of reaction take place in MITOCONDRIA by which **CARBON, FATY** **ACIDS** and **AMINO ACIDS** are **metabolize** and form **Co2, H2O and ATP**. These ATP moves out of the cell and **Hydrolyze** to ADP and become ready supplier **of ENERGY**, (process is).

**ASRARTATE** **🡪** *Through Transamination convert to* **OXALOACITATE🡪** *which* **oxidizes** *in to* **MITOCHONDRIA** *where carbon molecule of* **protein, carbohydrate and Fat**s **BREAKDOWN** in to Co2, H2o and ATP