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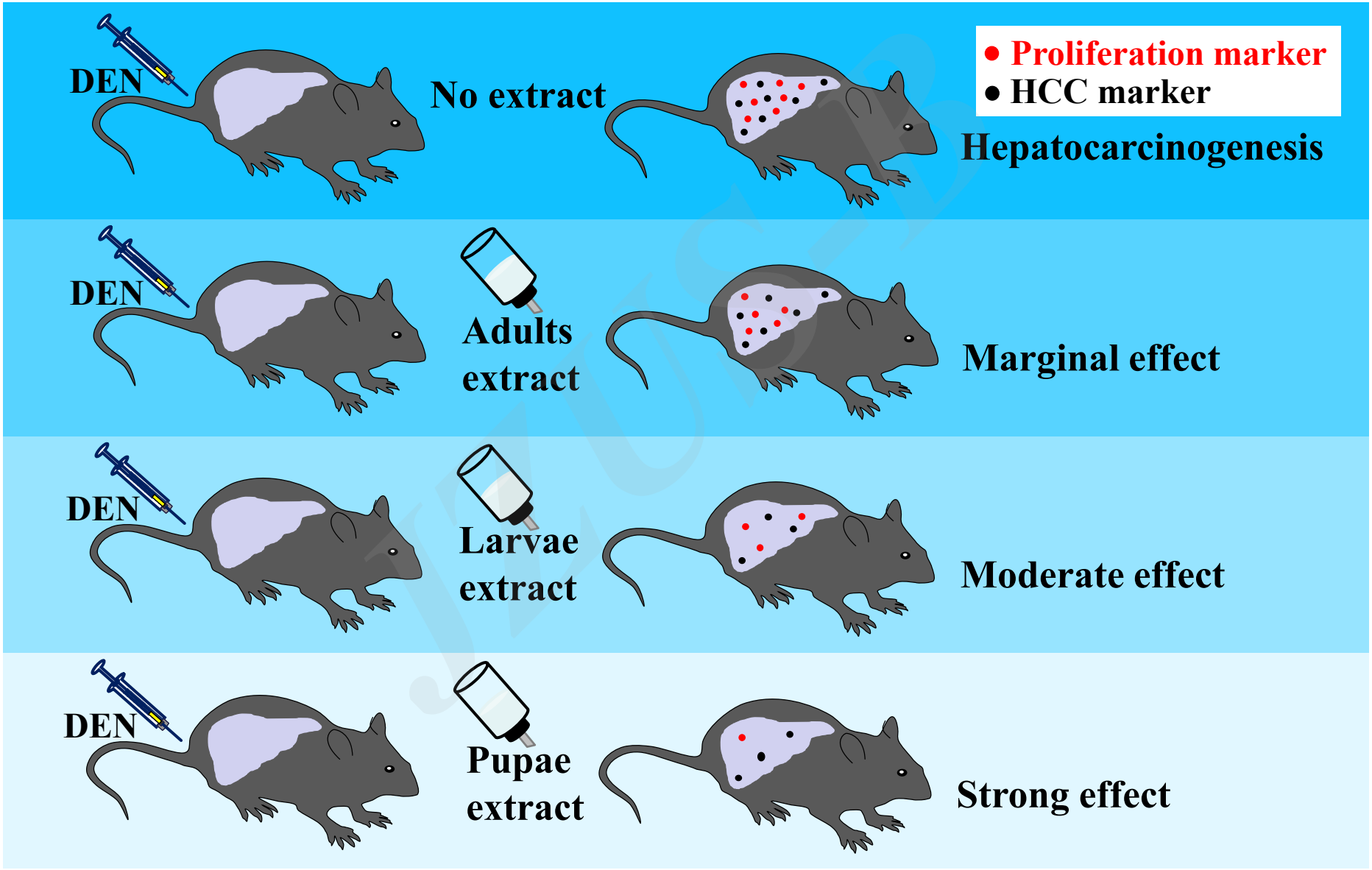
Aqueous extracts from *Tenebrio molitor* larval and pupal stages inhibit early hepatocarcinogenesis *in vivo*

Keywords: diethylnitrosamine; hepatocellular carcinoma; liver cancer prevention; proliferation inhibition

Research summary

T. molitor **larvae and pupae aqueous extracts inhibit diethylnitrosamine (DEN)-induced early HCC through an antiproliferative mechanism**



Highlights

T. molitor **larvae and pupae aqueous extracts inhibit the early HCC stage *in vivo*.**

T. molitor **larvae aqueous extract inhibits the HCC marker GSTP1.**

T. molitor **pupae aqueous extract strongly inhibits Ki67 proliferation marker.**

Aqueous extracts of all three *T. molitor* stages have differential anticancer effects.

Consumption of *T. molitor* larvae may be a preventive strategy in HCC high-risk populations.