

Dihydromyricetin Ameliorates Chronic Liver Injury by Reducing Pyroptosis

Dihydromyricetin Ameliorates Chronic Liver Injury

Abstract

BACKGROUND

Chronic liver injury (CLI) is now a worldwide disease. However, there is no effective treatment. Pyroptosis plays an indispensable role in CLI. Dihydromyricetin (DHM) resists oxidation and protects the liver. We hypothesize that the beneficial effect of DHM on CLI is related to its effect on the expression of pyroptosis-related molecules. Therefore, we studied the influence of DHM on CLI and pyroptosis.

AIM

To study the role of pyroptosis in the pathogenesis of CLI and the therapeutic mechanism of DHM.

METHODS

Thirty-two mice were randomly divided into four groups: the control group was injected with olive oil, the CCl₄ group was injected with CCl₄, the vehicle group was injected with Hydroxypropyl- β -cyclodextrin (HP- β -CD) while injecting CCl₄ and the DHM group was injected with DHM while injecting CCl₄. After four weeks of treatment, liver tissue from mice was stained with hematoxylin and eosin (HE), and oil red O stains. Blood was collected from the angular vein for serological analysis. The severity of CLI was estimated. Some liver tissue was sampled for

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Dihydromyricetin (DHM), a bioflavonoid isolated from *Hovenia dulcis*, can **reduce** EtOH intoxication and potentially **protect** against chemical-induced liver injuries. But there remains a paucity of information regarding the effects of DHM on EtOH metabolism and **liver protection**.

Author: Joshua Silva, Xin Yu, Renita Moradia... **Publish Year:** 2020

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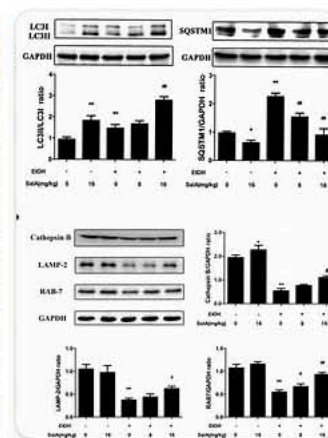
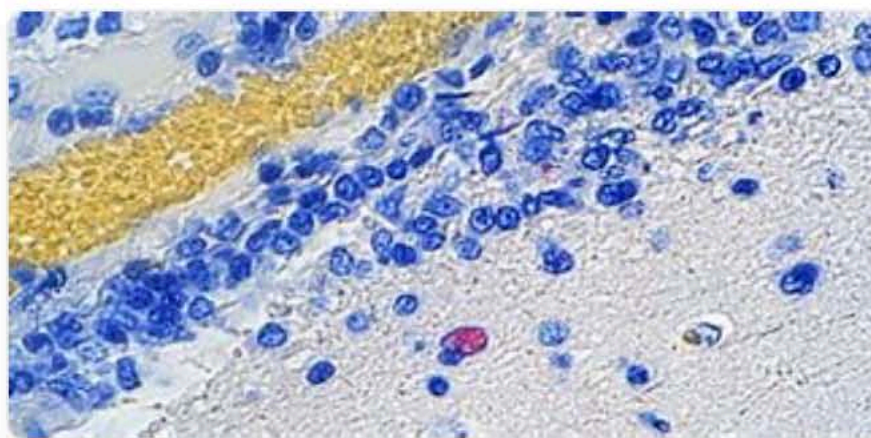
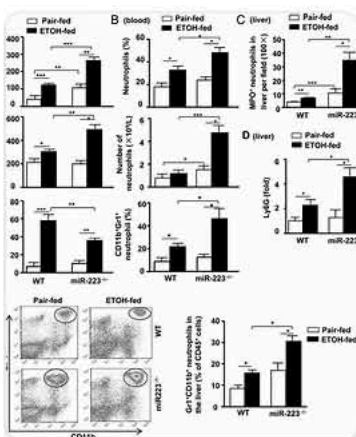
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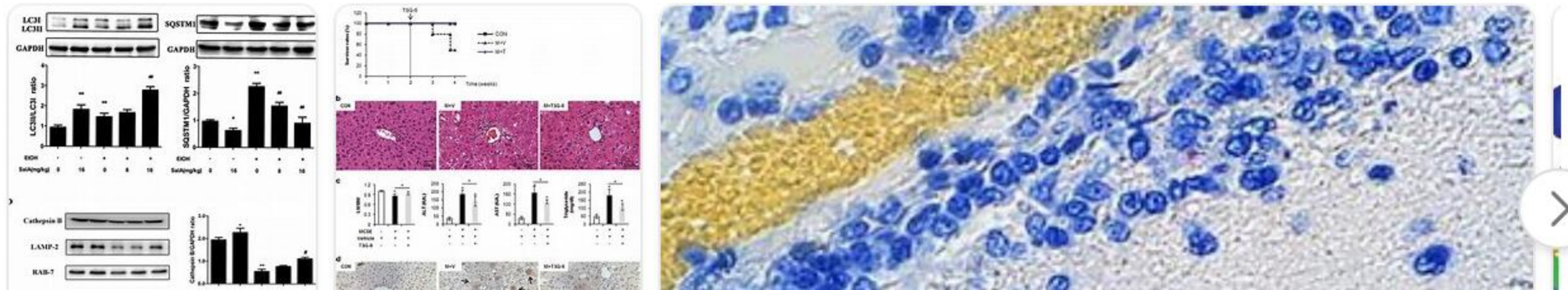
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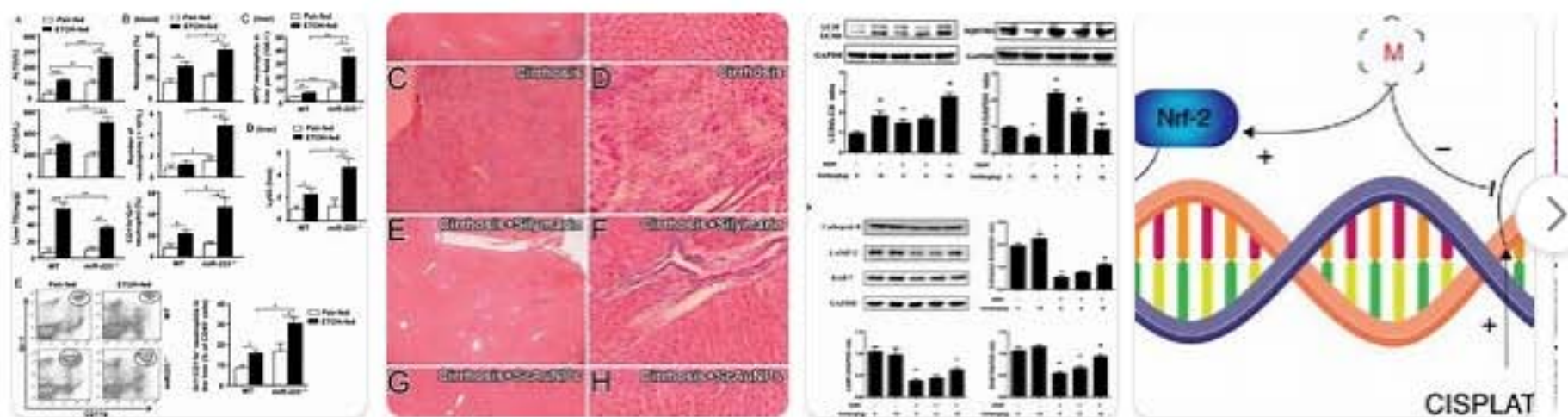
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