

# Chilli peppers hold promise of preventing liver damage and progression

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Results revealed today at the International Liver Congress 2015 show that the daily consumption of capsaicin, the active compound of chilli peppers, was found to have beneficial effects on liver damage.

In the study, [capsaicin](#) was found to reduce the activation of hepatic stellate cells (HSCs) in mice models. HSCs are the major cell type involved in liver fibrosis, which is the formation of scar tissue in response to liver damage.

## The mice were split into two groups and received capsaicin in their food:

- After three days of bile duct ligation (BDL) in which the common bile duct is obstructed, leading to bile accumulation and [liver fibrosis](#)
- Before and during chronic carbon tetrachloride treatment (CCl<sub>4</sub>). CCl<sub>4</sub> is an inorganic compound that was widely used in fire extinguishers, as a precursor to refrigerants and as a cleaning agent. It is now known to be one of the most potent hepatotoxins

The study demonstrates that capsaicin partially improved [liver damage](#) in the BDL mice and inhibited further progression of the injury. In the second group of CCl<sub>4</sub>-treated mice, capsaicin prevented livers from injury development but did not reduce the fibrosis when it was already established.

These results support the need for further investigation into capsaicin for the treatment and prevention of [liver injury](#) and fibrosis.

Provided by European Association for the Study of the Liver

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