

A novel liver patch could help treat and prevent liver disease

June 12 2024



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As described in research published in the *Biotechnology Journal*, investigators have developed a novel patch that can help liver tissue regenerate.

The patch is a combination of decellularized liver matrix, a liver growth factor, and an anticoagulant. In lab tests with <u>liver cells</u>, the patch helped



liver cells regain function after exposure to a toxin.

In rats, patches attached to the liver and gut promoted recovery from liver fibrosis, with notable decreases in scarring and inflammation.

"The decellularized liver matrix-based hepatic patch has demonstrated the ability to restore liver function and inhibit inflammation in fibrotic livers," said corresponding author Yung-Te Hou, Ph.D., of National Taiwan University. "This approach shows great potential for treating various liver-related diseases, ranging from mild conditions such as <u>fatty</u> <u>liver</u> to severe conditions like liver cirrhosis."

More information: Fabrication of a decellularized liver matrix–based hepatic patch for the repair of CCl4-induced liver injury, *Biotechnology Journal* (2024). DOI: 10.1002/biot.202300570

Provided by Wiley

Citation: A novel liver patch could help treat and prevent liver disease (2024, June 12) retrieved 26 June 2024 from <u>https://medicalxpress.com/news/2024-06-liver-patch-disease.html</u>

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