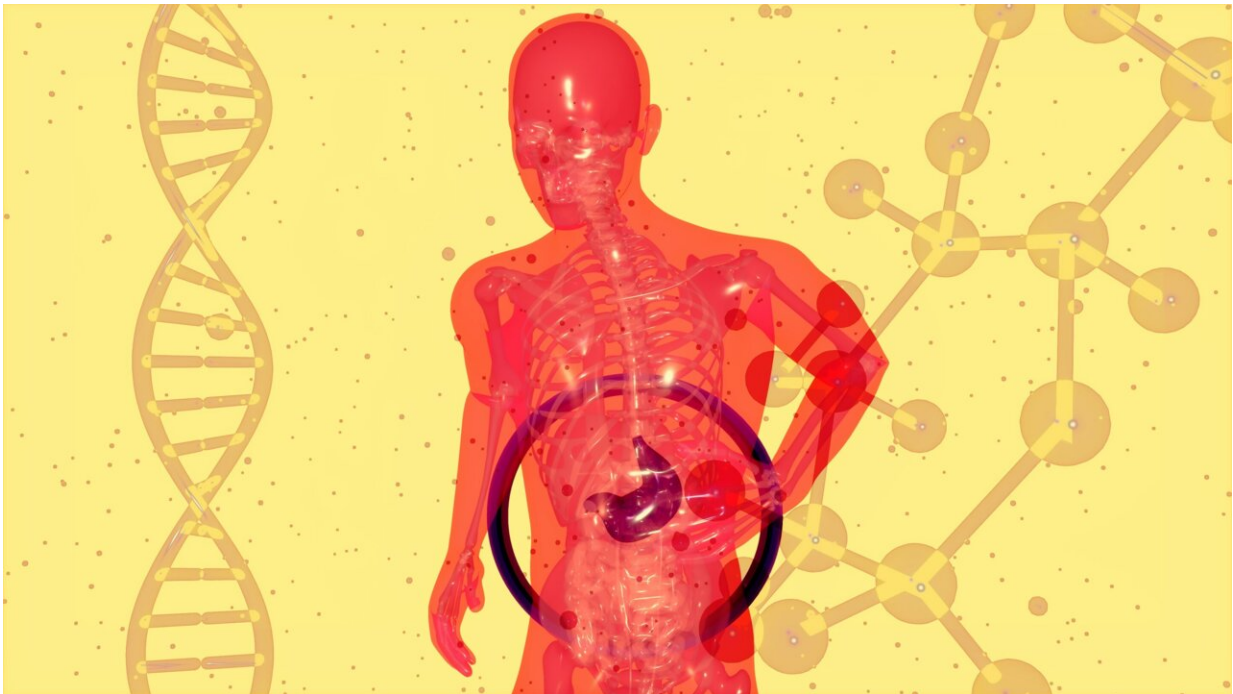


A novel liver patch could help treat and prevent liver disease

June 12 2024



Credit: Unsplash/CC0 Public Domain

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 [liver cells](#), 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 [fatty liver](#) 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](https://doi.org/10.1002/biot.202300570)

Provided by Wiley

Citation: A novel liver patch could help treat and prevent liver disease (2024, June 12) retrieved 18 June 2024 from <https://medicalxpress.com/news/2024-06-liver-patch-disease.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--