

CRISPR Just Edited DNA Inside a Human Body

A first-of-its-kind clinical trial proves in vivo gene editing is possible.

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First

In Vivo Prime Editing Case

This marks the first known instance of prime editing being applied directly inside a human body.

The milestone treatment, conducted by Prime Medicine, involved rewriting DNA in liver cells to correct a mutation causing Wilson disease—a rare genetic disorder. This achievement represents a paradigm shift from ex vivo editing, where cells are modified outside the body, to direct in vivo intervention.

Source: Nature · Published October 22, 2026
<https://www.nature.com/articles/d41586-026-03371-x>



01

Safety Through Precision

The reduced mutagenic potential of prime editing offers a template for AI safety: systems must be designed to minimize unintended consequences at the molecular level, just as they must avoid cascading errors in algorithmic decision-making.

02

Governance Must Evolve with Technology

For AI safety governance, this is a cautionary parallel: as AI systems gain real-world autonomy, regulatory frameworks must be proactive, not reactive—anticipating risks before they materialize, much like how oversight must now precede widespread in vivo editing.



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