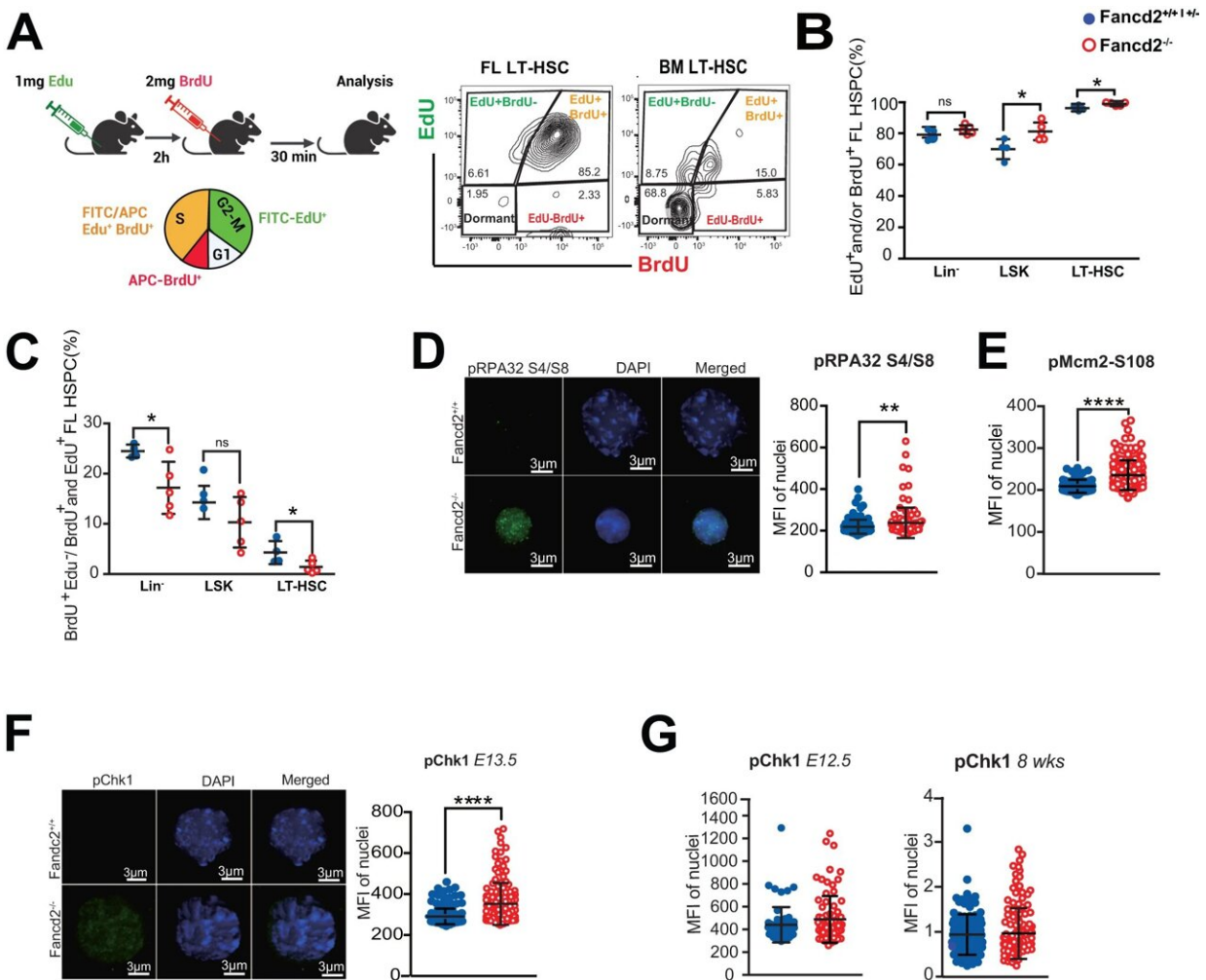


# Researchers determine underlying mechanisms of inherited disorder that causes bone marrow failure

March 22 2024



Fancd2<sup>-/-</sup> fetal liver HSPCs show replication stress and delayed cell cycle progression. **A** Schema for sequential EdU/BrdU injection in the dam at E13.5 with cell cycle analysis, Representative flow panels illustrate FL (left) and BM (right) HSPC distribution with predicted differences in dormancy, lower left quadrant. Schematic Figure was created with BioRender.com released under a Creative Commons Attribution-NonCommercial-NoDerivs 4.0 International license. **B** Frequency of nascent ssDNA (EdU<sup>+</sup> and/or BrdU<sup>+</sup>) in the Lin<sup>-</sup>, LSK and LT-HSC: (Fancd2<sup>+/+</sup>  $n = 4$ , Fancd2<sup>-/-</sup>  $n = 5$ ); \* $P$

Citation: Researchers determine underlying mechanisms of inherited disorder that causes bone marrow failure (2024, March 22) retrieved 28 April 2024 from <https://medicalxpress.com/news/2024-03-underlying-mechanisms-inherited-disorder-bone.html>

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.