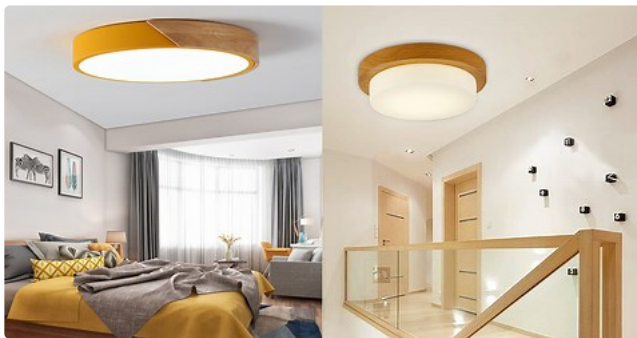


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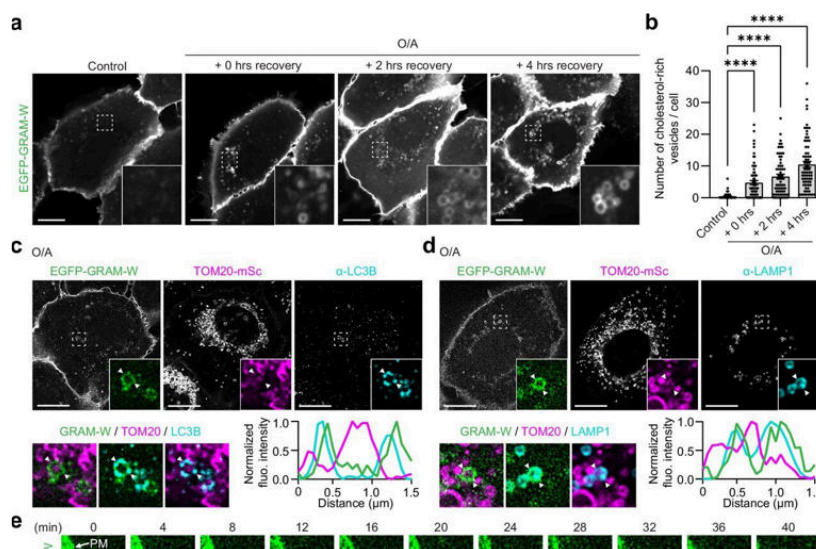
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Unlocking the cell's supply chain: How cholesterol keeps cellular recycling centers running

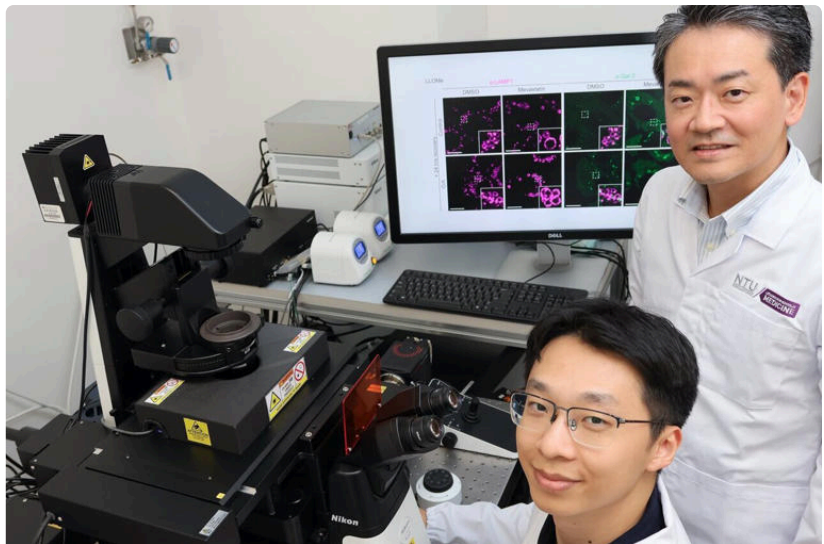
Story by Science X staff • 12h • [3 min read](#)



Cholesterol accumulates in the membranes of degradative lysosomes when mitochondria are depolarized. Credit: Nature Communications (2026). DOI: 10.1038/s41467-026-77423-1

Mention cholesterol, and most people will think of clogged arteries or health warnings. But inside the microscopic universe of the human cell, cholesterol has a drastically different job description as an indispensable cellular lifesaver. A study led by the Lee Kong Chian School of Medicine (LKC Medicine) at Nanyang Technological University, Singapore (NTU Singapore), shows how cells rapidly dispatch cholesterol to reinforce their "recycling centers" called lysosomes, preventing them from bursting while breaking down worn-out cellular machinery.

Feedback



Using advanced microscopic imaging, Dr Yang Haoning (left) and Assoc Prof Yasunori Saeki from Nanyang Technological University, Singapore, discovered the importance of cholesterol in keeping our cellular recycling centers running. Credit: NTU Singapore

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Published in *Nature Communications*, the [study's findings](#) provide potential clues to why this recycling process breaks down in age-related brain disorders such as [Parkinson's](#) and Alzheimer's diseases.



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The cellular cleanup crew

Every second inside our cells, mitochondria generate the energy that fuels life.

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This automaker is sticking with EVs as Trump scraps green car regs

Story by Summer Ballentine, The Detroit News · 1d ·

2 min read



DETROIT — General Motors Co. President Mark Reuss said Tuesday, Sept. 29 that the Detroit automaker remains **committed** to electric vehicles, even as strict Biden-era environmental rules pushing the industry toward electrification are repealed by the Trump administration.



General Motors President Mark Reuss smiles at the start of his conversation with Automotive News Publisher KC Crain, out of view, on Tuesday, Sept. 29, 2026, at the Department at Hudson's in Detroit. Reuss said the automaker is committed to EVs despite changes in U.S. regulations.
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GM is playing the "long game," Reuss said at the Automotive News Congress conference at The Department at Hudson's. He said it would be too expensive to switch long-term plans based on rapidly changing government regulations.



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