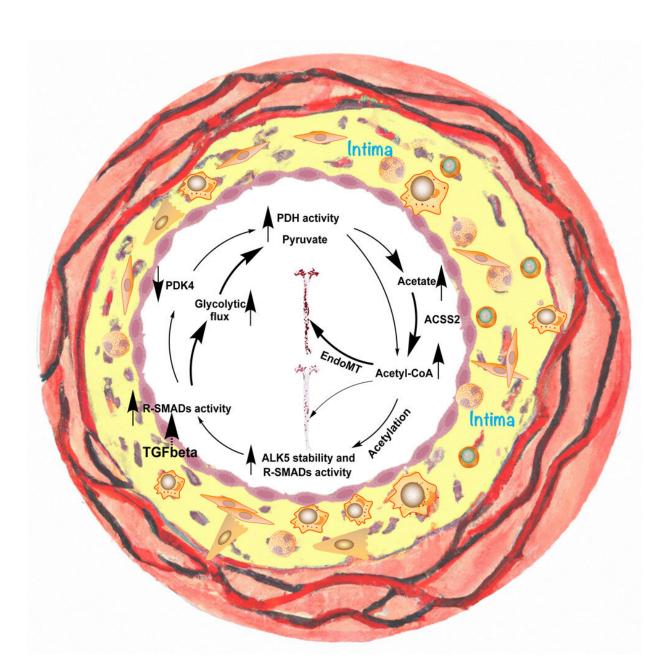


## Acetate controls endothelial-to-mesenchymal transition: Potential therapeutic target for reducing atherosclerosis

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Graphical abstract. Credit: *Cell Metabolism* (2023). DOI: 10.1016/j.cmet.2023.05.010

In a new study, researchers including Yale School of Medicine's Michael Simons, MD, identify the molecular underpinnings of persistent endothelial-to-mesenchymal transition (EndMT), an important process related to vascular inflammation in diseases including pulmonary hypertension.

Researchers found atypical acetate production from <u>glucose</u> triggered metabolic modulation of the endothelium activated TGF- $\beta$  signaling, triggering a positive feedback loop and EndMT persistence.

The work identifies endothelial ACSS2 as a potential therapeutic target for reducing atherosclerosis. The study is published in the journal *Cell Metabolism*.

**More information:** Xiaolong Zhu et al, Acetate controls endothelial-tomesenchymal transition, *Cell Metabolism* (2023). <u>DOI:</u> <u>10.1016/j.cmet.2023.05.010</u>

## Provided by Yale School of Medicine

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