

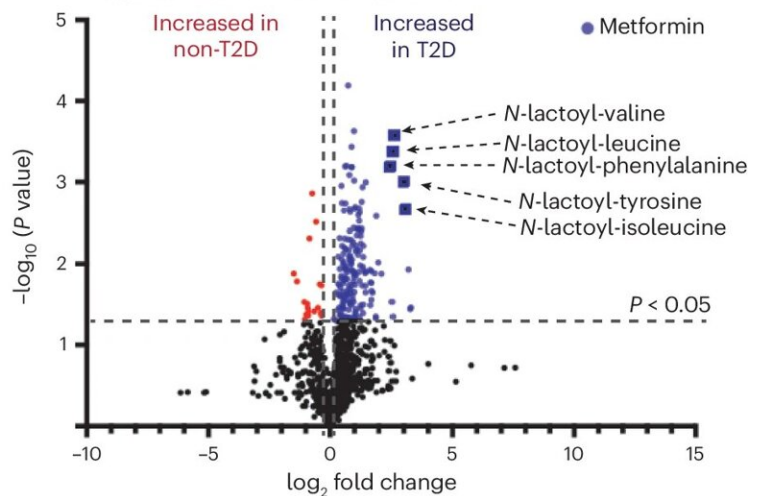
# Scientists uncover new secrets to natural appetite control, offering promise in the battle against obesity

March 20 2024

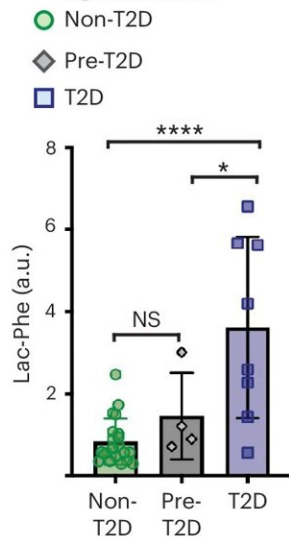
**a** Brigham cohort

Volunteer description	Number of volunteers
Lean, Non-T2D	10
Lean, Pre-T2D	1
Obese, Non-T2D	11
Obese, Pre-T2D	3
Obese, T2D	8

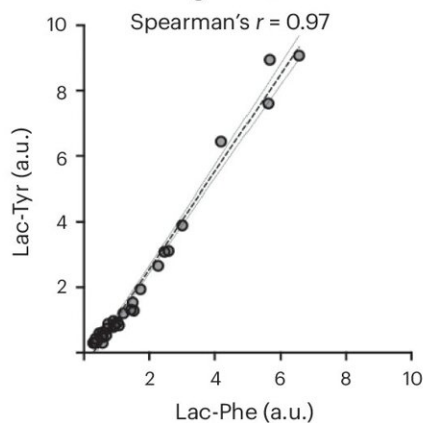
**b** Brigham cohort - obese individuals



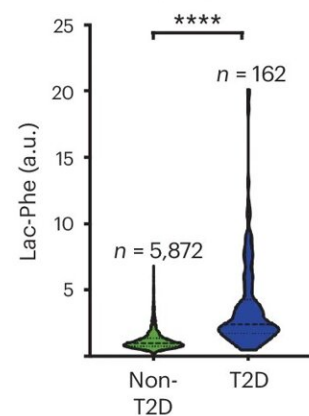
**c** Brigham cohort



**d** Brigham cohort



**e** TwinsUK cohort



Elevated serum Lac-Phe in patients with T2D. **a**, Distribution of 33 non-diabetic (non-T2D), pre-diabetic (pre-T2D) and diabetic (T2D) participants in the Brigham and Women's Hospital cohort study. **b**, Volcano plot comparing metabolomes of obese non-T2D ( $n = 11$ ) and obese T2D ( $n = 8$ ) individuals. Significantly upregulated (blue) and downregulated (red) metabolites are shown, and *N*-lactoyl amino acids are highlighted. **c**, Lac-Phe levels in non-T2D ( $n = 21$ ), pre-T2D ( $n = 4$ ) and T2D ( $n = 8$ ) individuals ( $*P = 0.0198$  and  $****P$

Citation: Scientists uncover new secrets to natural appetite control, offering promise in the battle against obesity (2024, March 20) retrieved 27 April 2024 from <https://medicalxpress.com/news/2024-03-scientists-uncover-secrets-natural-appetite.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.