

Melye-amiley

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About Melye-amiley:

- It is a **traditional fermented bambooshoot variety of Tripura**.
- It has anti-obesity effects and offers a solution to weight management and metabolic health,
- It reduces lipid accumulation and **increases fatty acid β -oxidation**.

Highlights of the research

- Based on in vitro cell culture studies the team has observed that a traditional fermented bamboo shoot variety of Tripura, called 'Melye-amiley' **can reduce intracellular lipid accumulation**.
- The process involved an increase in the expression of lipolytic (HSL, LPL, and AgtI) and fat browning regulator genes (UCP1, PRDM16, and PGC1-alpha).
- Furthermore, the study demonstrates that treatment with Melye-amiley leads to the **upregulation of thermogenic protein expression** via the AMPK signaling pathway.
- This process stimulates mitochondrial biogenesis and enhances fatty acid β -oxidation, offering a multifaceted approach to weight management and metabolic health.
- These findings suggest that fermented bamboo shoot extract has promising anti-obesity effects by boosting energy expenditure in white adipocytes.

Q1: What is obesity?

It is defined as abnormal or excessive fat accumulation that presents a risk to health. A body mass index (BMI) over 25 is considered overweight, and over 30 is obese.

News: Fermented bamboo shoot of Tripura possesses anti-obesity property

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