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Sawdust Fermentation: An Effective Strategy for Sustainable Production of Microbial Proteins and Waste Management

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Abstract:
Sawdust, also known as wood shaving, which is a common waste product of agriculture and industry with disposal issues. These days, there is a lot of interest in waste management (such as sawdust) and research on turning it into various compounds for specific uses and objectives. Microbial proteins also known as single-cell proteins or microbial biomass have a high protein content and are a rich source of carbohydrates, minerals, lipids, vitamins, and amino acids. In this issue, Ado et al. (2024), report the production of bioprotein and biomass by fermentation of *Terminalia superba* sawdust at optimum conditions. The production of bioproteins using sawdust as a substrate is an alternate technique to lessen the environmental impact of sawdust. Producing bioenergy from microbial biomass can be a viable substitute for meeting energy needs in a sustainable manner while lowering the quantity of waste that ends up in the environment.

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