Review of: "Valorization of palm oil wastes into oyster mushrooms (Pleurotus HK-37) and biogas production"

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Potential competing interests: No potential competing interests to declare.

Title of the manuscript: Valorization of palm oil wastes into oyster mushrooms (Pleurotus HK-37) and biogas production

The authors have submitted a manuscript with the title: Valorization of palm oil wastes into oyster mushrooms (Pleurotus HK-37) and biogas production.

The goal of the study was to investigate the co-production of oyster mushroom Pleurotus HK-37 and biogas to add value to palm oil waste fractions and thus reduce their impact on the environment.

The study has demonstrated that mushroom and biogas production are viable options for the management of palm oil processing waste fractions and thus promoting a circular economy.

Previous studies have reported the use of palm oil processing wastes alone or in combination with other agro-processing wastes in the production of several types of mushrooms, such as *Pleurotus* while others have investigated the utilization of palm oil processing waste for biogas production. In recent years, studies have attempted to combine mushroom and biogas production to obtain maximum value from such wastes. However, there are no studies in the country (Tanzania) that determined the feasibility of utilizing palm oil processing waste fractions for oyster mushroom production and biogas.

The authors, of this study, determined the suitability of palm oil waste fractions for the co-production of mushrooms and biogas as a value-added alternative to waste management.

The manuscript provides an original and significant contribution to the literature.

The manuscript makes a novel and useful contribution to the field of already published material.

The implications of the work are clearly presented in the discussion and conclusion sections.

The manuscript's title conveys the content of the paper while the abstract is concise and informative conveying the content of the manuscript.

All the references are included and relevant to the published work.

Recommendation: The current manuscript is suitable for Qeios an open-access, open peer review, academic publishing platform.

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