

# Review of: "Techno-Economic Fermentative Microbe-Based Industrial Production of Lactic Acid (LA): Potential Future Prospects and Constraints"

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Potential competing interests: No potential competing interests to declare.

I think that the article entitled "Techno-Economic Fermentative Microbe-Based Industrial Production of Lactic Acid (LA): Potential Future Prospects and Constraints" presents results of interest to both the scientific community and the general population. However, some adjustments are necessary to improve the document.

## Abstract

In the abstract, there was more talk about biogas than lactic acid, which is the focus of the work, so this abstract must be rewritten. Put process data, economic data, efficiencies, etc. Focus specifically on the metabolite of interest, which in this case is **lactic acid**.

## Graphical Abstract (GA)

I think that GA should be focused on the production of lactic acid, process steps, purification steps. Other processes, for example, sugar production, do not contribute anything to this work. Therefore, I think that GA should also be rethought.

## Highlights

This section should present the highlights of the work; please redo. Another thing is that it is not recommended to use acronyms only when they are well known.

## Introduction

I thought it was cool that he talked a lot about sugar plantation and production statistics, but he was missing a key figure: how much lignocellulosic biomass is produced from sugar cane? This information is key because it is the substrate for the production of lactic acid.

The quality of figure 1 is very poor.

## Biomass Recalcitrance and Carbohydrate Recovery

The information in this section should be rewritten. Before placing the table, some type of information from table 2 must be discussed to link the table with the paragraph.

## Valuation of bagasse

The quality of figure 2 1 is very poor.

I think that the document should be significantly improved in technical and economic aspects. Data/values of the costs of the process, operations, and different pre-treatments must be added to the document.