

# Review of: "Modeling and Optimization of a Molecular Biocontroller for the Regulation of Complex Metabolic Pathways"

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**Potential competing interests:** The author(s) declared that no potential competing interests exist.

The Application of Modeling and Optimization of a Molecular Biocontroller for the Regulation of Complex Metabolic Pathways is potentially interesting, however, there are some issues that should be addressed by the authors: The Introduction" sections can be made much more impressive by highlighting your contributions. The contribution of the study should be explained simply and clearly. The authors should further enlarge the Introduction with current work about advanced optimization algorithms to improve the research background, for example, improved grey wolf optimizer based on opposition and quasi learning approaches for optimization: case study autonomous vehicle including vision; Optimal design of nonlinear model predictive controller based on new modified multitracker optimization algorithm.

Clarify how you handle the constraints of the model during the design.

Clarify the practical implementation of the proposed method

Clarify how you adjust the parameters of the proposed approach

Clarify why you did not use advanced multiobjective optimization algorithms

Compare your method with others in the literature

Figure 2 unclear

Conclusion section should be rearranged. According to the topic of the paper, the authors may propose some interesting problems as future work in the conclusion.