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| Book Name: | [Contemporary Research and Perspectives in Biological Science](https://www.bookpi.org/bookstore/product/contemporary-research-and-perspectives-in-biological-science-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4244** |
| Title of the Manuscript:  | **Remarkable growth of bacteria in the rumen of sheep fed grass hay added with whole cottonseed containing anti-nutrient gossypol** |
| Type of the Article | **Book chapter** |

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| PART 1: Comments |
|  | Reviewer’s comment | Author’s Feedback*(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimumof 3-4 sentences may be required for this part.** | **This manuscript addresses a critical topic in ruminant nutrition, specifically exploring the effects of whole cottonseed (WCS) on rumen microbial populations in sheep. The findings are valuable for optimizing feeding strategies, balancing nutrient intake, and mitigating the adverse effects of anti-nutritional factors like gossypol.**  |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **The current title emphasizes bacterial growth butunderrepresents the inhibitory effects on fungi and protozoa, which are central findings. A more suitable title would be: "Effects of Whole Cottonseed Supplementation on Rumen Microbial Populations in Sheep Fed Grass Hay."** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **The abstract is informative butshould be improved for clarity and conciseness. Replace vague terms like "remarkable growth" with precise findings. Highlight both the resilience of bacteria and the reductions in fungal and protozoal populations. Address grammatical errors for enhanced readability.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **The study is scientifically robust with a clear methodology and well-presented results. However, the small sample size (n=2) limits the statistical validity and generalizability of the findings. This limitation should be explicitly acknowledged in the manuscript.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **The references are mostly adequate, butseveral cited studies are relatively old. Including more recent studies on gossypol’s effects on rumen microbiota and advancements in microbial metagenomics would strengthen the manuscript. Suggested additions include recent metagenomic analyses and studies post-2015 on dietary stress in ruminants.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | The manuscript **contains numerous grammatical errors and typographical issues**, which affect its readability. Phrases like "decreased in the numbers" should be corrected to "decrease in the number." Extensive language editing and proofreading are necessary to ensure it meets scholarly communication standards. |  |
| Optional/Generalcomments | The manuscript has a valuable contribution to ruminant nutrition research. Addressing its limitations and refining its language and structure will significantly enhance its scientific impact. Additionally, future studies could include measurements such as rumen pH, volatile fatty acids, and ammonia concentrations to provide a more holistic analysis.**The manuscript requires substantial revisions in language, structure, and acknowledgment of limitations to meet publication standards.** |  |

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| **PART 2:** |
|  | **Reviewer’s comment** | **Author’s comment***(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** |
| Name: | **Moges Eriso Blate** |
| Department, University & Country | **School of Veterinary Medicine, Wolaita Sodo University, Ethiopia** |