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| Journal Name: | [**Asian Journal of Biochemistry, Genetics and Molecular Biology**](https://journalajbgmb.com/index.php/AJBGMB) |
| Manuscript Number: | **Ms\_AJBGMB\_139660** |
| Title of the Manuscript: | **Molecular characterization of cariogenic and non- cariogenic Streptoccoi species in dental plaque biofilm using 16S-23S rRNA gene spacer region amplification** |
| Type of the Article |  |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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 minimum of 3-4 sentences may be required for this part.** | **The study challenges the traditional view that Streptococcus mutans is the primary etiological agent of dental caries by highlighting the roles of Streptococcus salivarius and Streptococcus mitis. This finding is significant, as it suggests a more complex microbial interplay in caries development, aligning with the manuscript’s reference to phenotypic plasticity and genetic diversity.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| 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. | **Yes, it is conprehensive** |  |
| Is the manuscript scientifically, correct? Please write here. | **Yes, it is.** The materials and methods section is detailed, providing a clear description of DNA isolation (using the CTAB method), PCR setup, primer design, and bioinformatics analysis. The use of high-fidelity Phusion DNA polymerase and specific primers for the 16S-23S rRNA spacer region enhances the reliability of the results. The inclusion of figures (e.g., chromatograms and CLUSTAL-W alignments) supports the molecular findings. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The manuscript effectively situates its findings within the broader literature on oral microbiomes and cariogenic bacteria. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments |  |  |

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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)* |  |

**Reviewer details:**

**Ralitsa Bogovska-Gigova, Bulgaria**