

Dear Editor,

Following the reviewers' comments and your suggestions, we have thoroughly revised the manuscript. The main changes include:

- Major revisions to the figures: Several figures have been updated to improve clarity, readability, and better represent the key findings.
- Substantial modifications throughout the text: We have revised the manuscript for improved structure, clarity, and consistency. We addressed specific reviewer comments point-by-point (see attached response document).
- Clarification of methods and data analysis: We added details in the Methods section, including clarification of the data treatment and justification for certain experimental choices.
- Inclusion of additional references and discussion: Recent studies were integrated to strengthen the scientific context and support our interpretations.
- Minor corrections: Grammatical, typographical, and formatting issues have been corrected throughout the manuscript.

We believe that these revisions have significantly improved the quality of the manuscript and hope that it is now suitable for publication.

Sincerely,

Manon ROCCO