

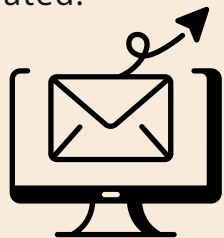
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After publication, original data—including lab notebooks, raw image files, and statistical syntax—should be retained for at least 3 to 5 years (or longer, depending on field-specific regulations) to allow for inspection at any time.

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Note: The English content was translated with AI assistance and manually reviewed.



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- ❑ **Author Consensus:**
All listed authors have read the final version and agreed to submit it to this journal.
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- ❑ **Data Readiness:**
Original experimental data and image records have been properly archived.
- ❑ **Conflict of Interest:**
Relevant funding sources and potential conflicts of interest have been disclosed in the manuscript.
- ❑ **Exclusive Submission:**
Confirmed that this manuscript is not currently submitted to any other journal (no multiple submissions).

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March 2026



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