

Editorial Policy Checklist

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Competing interests declaration

In the interest of transparency and to help readers form their own judgements of potential bias, Nature Portfolio journals require authors to declare any competing financial and/or non-financial interest in relation to the work described in the submitted manuscript.

We declare that none of the authors have competing financial or non-financial interests as defined by Nature Portfolio.

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Prior to submission all listed authors must agree to all manuscript contents, the author list and its order and the author contribution statements. Any changes to the author list after submission must be approved by all authors.

We have read the Nature Portfolio Authorship Policy and confirm that this manuscript complies.

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- Accession codes, unique identifiers, or web links for publicly available datasets
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We have provided a full data availability statement in the manuscript.

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Confirm that all relevant data are deposited into a public repository and that accession codes are provided.

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We have provided a full code availability statement in the manuscript

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n/a	Confirmed
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<input type="checkbox"/>	<input checked="" type="checkbox"/> The format shows data distribution clearly (e.g. dot plots, box-and-whisker plots)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Box-plot elements are defined (e.g. center line, median; box limits, upper and lower quartiles; whiskers, 1.5x interquartile range; points, outliers)
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Human research participants

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Ethical compliance

We have complied with all relevant ethical regulations and include a statement affirming this in the manuscript.

Ethics committee

Confirm that the manuscript states the name(s) of the board and/or institution that:

Approved the study protocol -OR- Provided guidelines for study procedures (if protocol approval is not required)

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We have obtained informed consent from all participants and this is noted in the manuscript.

Identifiable images

For publication of identifiable images of research participants, confirm that consent to publish was obtained and is noted in the Methods.

Authors must ensure that consent meets the conditions set out in the [Nature Portfolio participant release form](#).

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I certify that all the above information is complete and correct.

Typed signature Jing Lu Date Jul 22, 2021

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