

Checklist for initial submissions

Your manuscript will be subject to a quality check before it can be presented to an Editorial Board Member (EBM) for assessment. This is to ensure that all of the information required by the EBM and peer-reviewers is available.

Please review the checklist before submitting, as manuscripts that do not comply may be returned for changes before they are assigned to an EBM. Additionally, please ensure that all author information entered both in your manuscript and on our system is accurate.

Should you have any questions regarding this checklist, please contact us at srep@nature.com

Submission Files			
Item	Permissible file format	Notes	Completed
Cover letter	.doc, .docx, .pdf	Will be seen by the EBM but not the peer-reviewers	☒
Manuscript File	.doc, .docx, .tex, .pdf	Only one file permitted	☒
Main Figure File(s)	.jpg, .eps, .tiff, .psd, .png, .pdf	Can be uploaded separately or included within the Manuscript file	☒
Main Table(s)	Do not upload separately	Must be included in the Manuscript File	☒
Supplementary Information	.txt, .gif, .html, .doc, .jpg, .swf, .mov, .xlsx, .pdf, .ppt, .wav, .csv, .zip	Must be included separately from the Manuscript File, preferably as a single file. Supplementary datasets should be provided as separate .xlsx files	☒

Manuscript File		Completed
TITLE		
Exactly matches the title entered on the submission system and in any supplementary information		☒
The title should be a precise statement describing the main message of the paper and not contain puns or idiomatic expressions		☒
AUTHORS		
Corresponding author(s) are identified using an asterisk. Email address(es) of corresponding author(s) should be provided on the title page		☒
All author (corresponding and contributing) details are included on the submission system as well as in the Manuscript File		☒
Affiliations (including country) are provided and linked to authors with superscript numbers		☒
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Exactly matches the abstract entered on the submission system		☒

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Included in Manuscript File and contain sufficient detail to repeat experiments	☒
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For experiments involving human subjects (or tissue samples) the Methods section must include a statement that: 1. Identifies the institutional and/or licensing committee that approved the experiments, including any relevant details. 2. Confirms that all experiments were performed in accordance with relevant named guidelines and regulations. 3. Confirms that informed consent was obtained from all participants and/or their legal guardians.	☒
Please note that: 1. Study participant names (and other personally identifiable information) must be removed from all text/figures/tables/images. 2. For manuscripts that include information or images that could lead to the identification of a study participant, your Methods section must include a statement that confirms informed consent was obtained to publish the information/image(s) in an online open access publication. The use of coloured bars/shapes or blurring to obscure the eyes/facial region of study participants is not an acceptable means of anonymisation.	☒
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AUTHOR CONTRIBUTIONS STATEMENT	
Author contributions statement specifying the individual contribution of each author, is provided. This should be included after the references, and every author's contribution must be listed	☒
ADDITIONAL INFORMATION	
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A legend is provided for each main table and main figure in the Manuscript File. These should be placed at the end of the manuscript, after the references	☐

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A Data Availability Statement is provided as a separate section (titled 'Data Availability') at the end of the main text, before the 'References' section. See the ' Availability of materials and data ' policy for statement requirements	☒
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In a numbered list and all in-line citations should be matched back to a reference via numbering within square brackets	☒

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Supplementary material is uploaded separately, and not included in the Manuscript File	☒