

# nature portfolio

## Author Checklist

NCOMMS-24-72394B

Please check the items below carefully and add a response in each row of the table to indicate the changes that you have made. Please also check through any additional marked-up edits we may have provided within the manuscript file.

## Abstract and editor's summary

Our guidance:

Your response:

When discussing the current work in the abstract, please use the present tense.

We have changed the tense of the abstract to present

## Author information

Our guidance:

Your response:

We ask that you consult with your coauthors to ensure that all names, affiliations, and titles are represented correctly. Note that if any authors are added or removed after this point then all authors will be requested to provide approval documentation that could potentially delay the production of your paper.

Ensure affiliations are appropriately labeled and featured sequentially and in ascending order (1,2,3,... or a,b,c...). Please ensure all corresponding authors are marked with a specific symbol and include their emails. Similarly, if you have "equally contributing" or "joint supervision" authors, use a specific symbol to mark them and not a number.

Please ensure the author contributions section mentions each author's initials at least once with their contributions to the work. Authors with the same initials must be differentiated in the statement.

We have added an author contributions section, and each author is listed at least once.

## Article structure

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Your response:

We can accommodate up to 10 display items (Figures or Tables) in the main article. Each Figure and Table must fit easily within an A4 page (210 x 297 mm). Please ensure that the number and size of your Figures and Tables fulfil these requirements to avoid any delay in the acceptance of your article.

We have 8 figures all spanning two columns. We have tested them to ensure that they fit comfortably onto an A4 page.

Ensure main Figures are uploaded as separate individual files. Each figure file must contain all intended panels labelled and displayed as intended and fit entirely on a single page. Do NOT include legends within the figure files, as these must be in the main manuscript.

Each figure with labels, but no legend, is being uploaded as a pdf.

Supplementary Figures must be all contained in the Supplementary Information PDF and do NOT need to be uploaded separately.	The supplementary figures are included with legends in a separate pdf
<b>To comply with this format and optimise the presentation of data in your Article, we suggest the following changes to the display items in your paper:</b>	
<p><i>Please go through the formatting instructions and examples at <a href="https://www.nature.com/documents/ncomms-formatting-instructions.pdf">https://www.nature.com/documents/ncomms-formatting-instructions.pdf</a> and make sure that your submission complies with all these requirements.</i></p> <p><i>In the Supplementary Information file and the main manuscript text, supplementary items must be labelled and cited using only the following formats: Supplementary Figure 1, Supplementary Table 1, Supplementary Methods, Supplementary Note 1, Supplementary Discussion, and Supplementary References. Please note the use of "Supplementary" and that we do not use the "S" prefix.</i></p>	We have changed Supp. Fig. S1 to Supplementary Figure 1
<p><b>Please ensure your main manuscript file includes the following sections, in this order:</b></p> <p><i>Title</i>  <i>Author list</i>  <i>Affiliations</i>  <i>Abstract</i>  <i>Introduction</i>  <i>Results</i>  <i>Discussion (optional)</i>  <i>Results and Discussion (optional)</i>  <i>Methods</i>  <i>Data Availability</i>  <i>Code Availability (if relevant)</i>  <i>References</i>  <i>Acknowledgements</i>  <i>Author Contributions Statement</i>  <i>Competing Interests Statement</i>  <i>Tables</i>  <i>Figure Legends/Captions (for main text figures)</i></p> <p>We do not edit Supplementary Information files; they will be uploaded with the published article as they are submitted with the final version of your manuscript. Any tracked changes should be removed from the file and the file should be provided as a PDF file. Supplementary Figures do not need to be provided separately.</p> <p>Please supply Source Data files for all data presented in graphs within the Figures.</p>	<p>We have edited the main manuscript to include these sections in the proper order</p> <p>We have created a separate Supplementary File for the Supplementary Figure legends</p>
<p>Within the Source Data file, the relevant raw data from each figure or table (in the main manuscript and in the Supplementary Information) should be represented by a single sheet in an Excel document, or a single .txt file or other file type in a zipped folder. An example of the Source Data file is available demonstrating the correct format:</p> <p><a href="https://www.nature.com/documents/ncomms-example-source-data.xlsx">https://www.nature.com/documents/ncomms-example-source-data.xlsx</a></p> <p>The file should be labelled 'Source Data', with the title and a brief description included in your response here, and should be mentioned in all relevant figure legends using the template text below:</p> <p>'Source data are provided as a Source Data file.'</p> <p>A reference to the source data file should be added in the 'Data Availability' section, using the text "Source data are provided with this paper.</p>	

## Main text

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Please refrain from using words such as new/novel/first, when referring to the scientific findings. Please also remove exaggerated language such as 'extremely'/'outstanding'	
A full Methods section, divided into subsections and subheadings, must be provided in the main manuscript. There is no word limit to this section.	We have moved the Methods section to the main manuscript
Please ensure that gene and protein names are formatted according to community standards for the organism in question. Italicize gene symbols and functionally defined locus symbols; do not use italics for proteins.	We have checked all gene names for proper formatting
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Please make sure that mathematical terms throughout your manuscript and Supplementary Information (including in figures, figure axes, and legends) conform strictly to the following guidelines. Equations must be supplied in editable format, and not as images. Scalar variables (e.g. $x$ , $V$ , $\chi$ ) must be typeset in italic, whereas multi-letter variables and functions (e.g. $\log$ ) must be formatted in roman. Vectors (such as the wavevector $k$ or the magnetic field vector $B$ ) must be typeset in bold without italics.	
Please use italics for species names, both in the main text and the display items.	

## Figures and Tables

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<p>Please see the guidelines linked below for detailed instructions about how your figures should be prepared. Following these instructions will reduce the chances of delays should we need to request replacement artwork from you at a later stage.</p> <p><a href="https://www.nature.com/documents/NRJs-guide-to-preparing-final-artwork.pdf">https://www.nature.com/documents/NRJs-guide-to-preparing-final-artwork.pdf</a></p>	
<p>Wherever statistics have been derived (e.g. error bars, box plots, statistical significance) the legend needs to provide and define the <math>n</math> number (i.e. the sample size used to derive statistics) as a precise value (not a range). Please define how many replicates were performed and whether they are biological (derived from different experimental units or subjects) or technical (multiple contemporary measurements from the same experimental unit or subject). Samples should be unambiguously described, including a clear definition of the unit of study. In studies using model organisms, cell lines, primary cell cultures, plants or micro-organisms, the unit of study is the smallest object that could be randomly and independently assigned to an intervention. The groups being compared, including control groups, should be clearly defined. If no control group has been used, the rationale for this should be stated. Please ensure there are enough details about sample collection to distinguish between independent data points and technical replicates- splitting a biological sample into 3 tubes or wells receiving the same treatment does not constitute independent replication.</p> <p>We strongly discourage deriving statistics from technical replicates or less than 3 biological replicates, unless there is a clear scientific justification for why providing this information is important. Conflating technical and biological variability, e.g., by pooling technically replicates samples across independent experiments is strongly discouraged.</p> <p><b>Please note that this information is missing in the legend(s) of figure(s) 1C, F; 2A; 8A-D.</b></p>	
<p>All error bars need to be defined in the legends (e.g. SD, SEM) together with a measure of centre (e.g. mean, median). For example, the legends should state something along the lines of "Data are presented as mean values <math>\pm</math> SEM" as appropriate. All box plots need to be defined in the legends in terms of minima, maxima, centre, bounds of box and whiskers and percentile.</p> <p><b>Please note that the measure of centre for the error bars/error bands needs to be defined in the legend(s) of figure(s) 1F; 7B.</b></p> <p><b>Please note that the box plots need to be defined in terms of minima, maxima,</b></p>	

centre, bounds of box and whiskers and percentile in the legend(s) of figure(s) 1C; 2A; 8A-D.	
<p>The figure legends must indicate the statistical test used. Where appropriate, please indicate in the figure legends whether the statistical tests were one-sided or two-sided and whether adjustments were made for multiple comparisons. For null hypothesis testing, please indicate the test statistic (e.g. F, t, r) with confidence intervals, effect sizes, degrees of freedom and P values noted. Please provide the test results (e.g. P values) as exact values whenever possible and with confidence intervals noted.</p> <p><b>Please indicate the statistical test used for data analysis and where appropriate, please specify whether it was one-sided or two-sided and whether adjustments were made for multiple comparisons, in the legend(s) of figure(s) 1C-E; 4E; 8D.</b></p> <p><b>Please note that the information on whether the statistical test used was one-sided or two-sided, where appropriate, is missing in the legend(s) of figure(s) 2B-C; 4E; 5A-C.</b></p>	
Shadings or symbols in graphs must be defined in some fashion. We prefer that you use a key within the image; do not include colored symbols in the legend/caption.	
Any abbreviations, symbols or colours present in your figures must be defined in the associated legends.	
Please provide main figures as individual files (one file per figure) without embedded legends. Legends should be provided at the end of the main manuscript text only. The figure files should only contain the parts of the figure that should be reproduced in the final paper. Please do not include labels such as 'Figure 1' that you do not wish to appear in the HTML/PDF version.	

## Data and Code

Our guidance:

Your response:

<p>Nature journals strongly support public availability of data and code. Please deposit the data and code used in your paper into a public data repository, or alternatively, present the data as Supplementary Information. If data can only be shared on request, please explain why in your Data Availability Statement, and also in the correspondence with your editor.</p> <p>Please note that for some data types, deposition in a public repository is mandatory. Any restrictions on sharing of these data types must be clearly indicated in the statement and discussed with the editor. More information on our data deposition policies and available repositories can be found here:  <a href="https://www.nature.com/nature-research/editorial-policies/reporting-standards#availability-of-data">https://www.nature.com/nature-research/editorial-policies/reporting-standards#availability-of-data</a></p>	
<p>All published manuscripts reporting original research in Nature Portfolio journals must include a data availability statement, within the Methods and under the heading 'Data Availability'.</p> <p>The data availability statement must make the conditions of access to the "minimum dataset" that are necessary to interpret, verify and extend the research in the article, transparent to readers. We ask that you don't use phrases like 'available on reasonable request' but instead specify any restrictions to accessing your data as described below.</p> <p>This minimum dataset may be provided through deposition in public community/discipline-specific repositories, custom proprietary repositories or general repositories like Figshare, Zenodo and Dryad. Providing large datasets in supplementary information is strongly discouraged and the preferred approach is to make data available in repositories. Please see <a href="https://www.springernature.com/gp/authors/research-data-policy/recommended-repositories">https://www.springernature.com/gp/authors/research-data-policy/recommended-repositories</a> for a list of recommended repositories.</p> <p>If DOIs are provided, we also strongly encourage including these in the Reference list</p>	

<p>(authors, title, publisher (repository name), identifier, year).</p> <p>The Data Availability Statement should also reference any source data published alongside the paper.</p> <p>For clinical datasets or third party data, please ensure that the Data Availability statement adheres to our policy (<a href="https://www.nature.com/nature-research/editorial-policies/reporting-standards#availability-of-data">https://www.nature.com/nature-research/editorial-policies/reporting-standards#availability-of-data</a>)</p> <p>If data are unavailable, please indicate the exact reasons why data cannot be made available in a suitable public repository or upon request, including any conditions related to ethical approval, consent from study subjects, commercial or legal restrictions, etc.</p> <p>For data that are available under restricted access, the Data Availability statement must specify</p> <ul style="list-style-type: none"> <li>- the reasons for access restrictions</li> <li>- what the restrictions are</li> <li>- how one can get access to the data</li> <li>- who to contact to request access</li> <li>- any restrictions on who the data can be made available to or for which purpose</li> <li>- the expected timeframe for response to access requests</li> <li>- for how long the data will be available once access has been granted.</li> </ul>	
<p>Please use the following template to provide all the information stated above:</p> <p>The XX data generated in this study have been deposited in the YY database under accession code ZZ [add hyperlink here]. The XX data are available under restricted access for {insert reason}, access can be obtained by {explain how}. The raw XX data are protected and are not available due to data privacy laws. The processed XX data are available at YY. The XX data generated in this study are provided in the Supplementary Information/Source Data file. The XX data used in this study are available in the YY database under accession code ZZ [Add hyperlink here].</p>	
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## Methods

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<p>The Methods must include a “Statistics &amp; Reproducibility” section with general information on study design, how the statistical analyses of the data were conducted and general information on the reproducibility of experiments. Please include statements on how sample sizes were chosen, on whether any data were excluded (including why), whether randomization and blinding was used. If statements are negative please include the</p>	
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following statements: "No statistical method was used to predetermine sample size. "No data were excluded from the analyses"; "The experiments were not randomized"; "The Investigators were not blinded to allocation during experiments and outcome assessment".	
For animal studies, indicate the species, strain (including substrain), sex, number and age of animals in every experiment. In the Reporting Summary and Methods, confirm that the study received ethical approval, naming the organization that approved the study and indicating the protocol number where applicable. Alternatively, explain why ethical approval was not required.  The Reporting Summary and Methods should also include whether sex was considered in the study design and analysis and if not clarify why.  Data should be reported disaggregated for sex where this information has been collected; disaggregated numbers for individual experiments must be provided in the source data as appropriate whereas overall numbers may be provided in the methods section and Nature Portfolio Reporting Summary.  For more information please see <a href="https://www.nature.com/articles/s41467-022-30398-1">https://www.nature.com/articles/s41467-022-30398-1</a>	
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Centrifugation speeds must be reported in x g.	
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## End matter

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Please supply an "Author Contributions" section after the "Acknowledgements" section that refers to all authors. For more information on the Author Contributions statement, please refer to our authorship policy( <a href="https://www.nature.com/nature-research/editorial-policies/authorship">https://www.nature.com/nature-research/editorial-policies/authorship</a> ), and to the following Nature Editorial: <a href="https://www.nature.com/articles/4581078a">https://www.nature.com/articles/4581078a</a> .	We have added an author contribution statement after the acknowledgements.
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Please confirm that all relevant funding awarded to each author is described in the Acknowledgements section. List each grant number, followed by the initials of the author who received it.	All relevant grants have been reported with grant numbers where relevant.

## Additional Revisions

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<p>For any Supplementary Figures, please check and confirm that:</p> <ul style="list-style-type: none"> <li>* If data is presented as bar charts, individual data points are shown using overlaid dot plots.</li> <li>* The n number (i.e. the sample size used to derive statistics) is provided and defined as a precise value (not a range), using the wording "n=X samples/cells/independent experiments" etc. where applicable.</li> <li>* Any chart axis, error bars, scale bars, molecular weight markers, symbols and colour scales are defined.</li> <li>* Any statistical tests used for data analysis are specified and exact p-values are provided either on the figures themselves, in the legend or in the Source Data file.</li> <li>* Wherever representative data such as blots or micrographs are shown, the legend indicates how many times the experiment was repeated with similar results.</li> <li>* Full uncropped scans of any cropped gel/blot images are provided as an additional Supplementary Figure or in the Source Data file.</li> </ul>	
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## Preparing your manuscript files

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Unless otherwise stated please limit individual file sizes to approximately 30MB. We strongly encourage the use of repositories for large datasets or source data due to size considerations.	
Please supply a brief (maximum 250 characters, including spaces) summary of the main findings of the paper to be used on our website and in our e-alerts. The summary should be written in the third person in language suitable for a broad audience. The summary may be edited by the editors prior to publication. Please provide this summary in your cover letter.	
Large datasets exceeding an A4 page size should be supplied as Supplementary Data files to allow reuse, not Supplementary Tables.	
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<b>General Instructions</b>	
Please mention the last updated date in 'Last updated by author(s):' section.	
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Please ensure all the data collection/data analysis software/tools/algorithms/packages used in the study are clearly mentioned in the manuscript and are also listed in the reporting summary (with version numbers).	
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Please provide the figshare web-link for the custom code developed in the study, in the reporting summary as well.	
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For all experiments, please describe whether the investigators were blinded to group allocation during data collection and/or analysis. If blinding was not possible, describe why OR explain why blinding was not relevant to your study.	
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