nature portfolio

Author Checklist

NCOMMS-24-72394B

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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
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Author information

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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.	
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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

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.
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Please supply Source Data files for all data presented in graphs within the Figures.	
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:	We have provided Source Data files as tab delimited text files labeled with the figure panel the data correspond to. Each file has a text header describing the data and the corresponding figure. We have
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Main text

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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
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Figures and Tables

Our guidance.	rour response.
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. https://www.nature.com/documents/NRJs-guide-to-preparing-final-artwork.pdf	We have reviewed the figure guidelines. ask Greg about font size
Wherever statistics have been derived (e.g. error bars, box plots, statistical significance) the legend needs to provide and define the n 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. 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	For all box plots, the n in each group is indicated either in the legend or in the figure and referred to in the legend. ask Greg about range in Fig 7 B and C Add a supplemental table? Editors didn't mention Figure 7
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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 +/- 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.	Fig 1F: centers are heritability and bands are standard error. 7B/C: centers are the mean of the rank Z normalized body weight and bands are the standard deviation. These are noted in the legend.
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. Please note that the box plots need to be defined in terms of minima, maxima,	We have added descriptions of the features of the box plots ito the legends of figures 1C, 2A, and 8A-D.

centre, bounds of box and whiskers and percentile in the legend(s) of figure(s) 1C; 2A; 8A-D.	
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Data and Code

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Methods

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The Methods must include a "Statistics & 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

WTF?! This IS the methods section

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".	
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End matter

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