

Checklist for submitting a revised Research manuscript

In addition to addressing the items noted in the decision letter regarding your manuscript, ensure that your revised manuscript adheres to the guidelines below. For full submission details, visit the [JCI website](#).

Required files

- ☐ **Manuscript**
- ☐ PDF of a clean version of the entire manuscript; include references, figures, figure legends, and tables.
- ☐ PDF of a marked-up version of the entire manuscript showing revisions and beginning with a point-by-point response to reviewer comments.
- ☐ Word or RTF file of all manuscript text; include references, figure legends, tables, and table legends (but not figures, images, markup, or point-by-point responses).
- ☐ **Figures**
- ☐ Note: Display items (figures and/or tables) in the main text are limited to 9 total. See “[Display items](#)” below.
- ☐ Publication-quality figures in TIFF format. See [instructions for figure preparation](#).
- ☐ Recommended: Graphical abstract ([details available here](#)).
- ☐ **Supplemental material**
- ☐ Supplemental information, figures, and modest-sized tables, as:
 - ☐ (a) (if applicable) a PDF in which reviewer-requested changes are highlighted;
 - ☐ (b) a clean, publication-quality PDF.
- ☐ There is no limit on the number of display items in supplemental material.
- ☐ Upload any supplemental videos and/or large spreadsheets separately.
- ☐ Before submission, carefully review all supplemental files; they will not be checked by a copy editor. The Journal is not responsible for any errors contained in supplemental material.
- ☐ **Blot and gel images**
- ☐ For any figure showing a cropped blot or gel: a PDF, PPT, or PPTX file (distinct from any other supplemental material) that shows the entire unedited images.
- ☐ Annotate each image as, e.g., “Full unedited gel for Figure 2B.”
- ☐ Clearly indicate which bands were used for the figures.
- ☐ [View Journal policy on blot/gel images here](#).

Supporting data values

- ☐ XLS file (distinct from any other supplemental material) providing data values for all graphs and values behind any reported means in the manuscript or supplemental material.
- ☐ Combine all values into a single document, with a separate tab for each applicable figure part.
- ☐ Before submission, carefully review your file; it will not be checked by a copy editor. The Journal is not responsible for any errors contained in Supporting Data Values.
- ☐ For details, see [How to prepare a Supporting Data Values file](#).
- ☐ [View Journal policy on supporting data](#).

Large data sets

- ☐ Large data sets for high-throughput sequencing are deposited in a MINSEQE-compliant public database.
- ☐ Proteomics data are deposited in a MIAPE-compliant public database.
- ☐ Accession numbers are provided in the Data Availability paragraph and entered with the details in the Journal submission site.
- ☐ If there are restrictions on accessibility or availability of large data sets, you may request an exemption from the Editors. State the basis for the exemption in “Data availability” and in the submission site.
- ☐ [View Journal policy on large data sets](#).

Formatting and style

- ☐ Recommended 9,000/maximum 12,000 words (including title page, main text, references, figure legends, and tables).
- ☐ Double spaced throughout, including references and tables; figure legends in the PDF may be single spaced if necessary to keep a figure and its legend on the same page.
- ☐ All pages are numbered.
- ☐ Each section begins on a new page.

Abbreviations and acronyms

- ☐ [Standard JCI abbreviations and acronyms](#) are used without definition.
- ☐ All other abbreviations and acronyms are spelled out at first use in the Abstract and again at first use in the main text (with the abbreviated form appearing in parentheses) and used without definition thereafter.

Gene names and symbols

- ☐ Gene names and symbols conform to official [NCBI Gene nomenclature](#).
- ☐ Presented according to [JCI Gene nomenclature and style](#).

Italicization

- ☐ Generally reserved for gene symbols, genotypes, and species names.
- ☐ Terms such as “in vivo” and “in vitro” are not italicized.

In-text citations

- ☐ Unpublished data, manuscripts in preparation/under review, and personal communications are cited parenthetically in the text, not as numbered references; e.g., “(Jane L. Doe, UCLA, Los Angeles, California, USA, unpublished observations).”
- ☐ Note: Provide written permission to cite unpublished observations by individuals external to the author’s research team (email is sufficient).

Reference citations

- ☐ Appear in parentheses preceded by a space, e.g., “as described previously (1, 2);” “several research groups (4–10) have found.”
- ☐ No superscript, boldface, italics, etc.

Figure and table callouts

- ☐ Figures and tables are called out in numerical order.
- ☐ “Figure,” “Table,” “Supplemental Figure,” “Supplemental Table,” etc., are spelled out.
- ☐ Callouts appear in parentheses (no boldface or italics) preceded by a space, unless grammatically part of the sentence: “the levels increased (Figure 5A);” “data shown in Table 2.”
- ☐ Parts are called out as, e.g., “Figure 1A,” “Figure 2, A and B,” “Figure 3, B–D.”

Manuscript preparation and required reporting

- ☐ **Title page**
- ☐ **Manuscript title**
- ☐ Clear, concise, and limited to 15 words, including conjunctions.
- ☐ Refers to the relevant disease or disease model studied.
- ☐ No subtitles, colons, periods, or nonstandard abbreviations.
- ☐ **Authors and affiliations**
- ☐ Author names are provided in full (e.g., “Benita J. Sjögren”) and in the appropriate order.
- ☐ No titles, honorifics, degrees, or certifications.
- ☐ Affiliations correspond to the period when the work was performed.
- ☐ Affiliation footnotes are assigned consecutively using superscripted numbers (1, 2, 3, etc.).
- ☐ Affiliations include department, institution, city, state (if applicable), and country (but not mailing address or zip/regional code).
- ☐ Consortium/study groups shown as authors (e.g., CARDIoGRAM Consortium)
 - ☐ Unless the members of the group are shown as authors, a list with each individual member and their affiliation appears in the supplemental material under the heading Supplemental Acknowledgments.
 - ☐ The following sentence appears in Acknowledgments: “See Supplemental Acknowledgments for details on {name of consortium}.”
- ☐ **Abstract**
- ☐ Single-paragraph format with no subheads.
- ☐ Maximum 200 words.
- ☐ No primary data or references.
- ☐ All nonstandard abbreviations are defined at first use.
- ☐ **Main text (presented in the following order)**
- ☐ **Introduction**
- ☐ **Results**
- ☐ **Discussion**

☐ **Methods**

- ☐ Demographic information ([see details here](#))
 - ☐ Reporting on race and ethnicity adheres to [NIH guidelines](#) or other applicable authoritative standards.
 - ☐ Descriptors for any demographic identities are clear, unbiased, and up-to-date.
 - ☐ Data for any demographic variable are inclusive; if any information is unavailable or incomplete, an explanation is provided.
 - ☐ Specify whether the participants or investigators made the classifications; and whether the options were defined by the investigators or participants.
- ☐ Complete manufacturer name (omit location) is provided for each proprietary item used.
- ☐ For animal models, precise genotype, strain, number of backcrosses, sex, age, and source are specified.
- ☐ Antibodies
 - ☐ Commercial: Source and catalog/clone number are specified for each.
 - ☐ Custom: Generation of antibodies is described (or an appropriate reference is cited).
- ☐ Source of all cell lines used is indicated.
- ☐ Statistics
 - ☐ Stand-alone paragraph near the end of Methods (before “Study approval”).
 - ☐ The *P* value used to determine significance of differences is specified; e.g., “A *P* value less than 0.05 was considered significant.”
 - ☐ Analysis appropriately corrects for multiple comparisons (more than 2 groups) and for repeated measures (multiple measurements within subjects).
 - ☐ If samples were excluded from the analysis, a statement describes inclusion/exclusion criteria.
- ☐ Study approval
 - ☐ Stand-alone paragraph near the end of Methods (before “Data availability”).
 - ☐ Declaration of approval of human and/or animal studies, specifying the official name and location of the applicable review board(s).
 - ☐ For human studies, a statement indicates receipt of written informed consent from participants and/or their parents/guardians.
 - ☐ For use of photographs of participants, a separate statement of written informed consent is included.
- ☐ Data availability
 - ☐ Stand-alone paragraph (before “Manuscript information”).
 - ☐ Provide a callout to the Supporting Data Values XLS file ([described above](#)).
 - ☐ Specify how supporting analytic code for the work can be accessed.
 - ☐ Provide the accession number(s) for large data sets deposited in public repositories here.
 - ☐ Clearly state any restrictions on data availability (if applicable).

☐ **Manuscript information (in the following order)**

☐ **Author contributions**

- ☐ The contribution of each author (identified by initials) is specified; e.g., designing research studies, conducting experiments, acquiring/analyzing data, providing reagents, writing the manuscript. Multiple contributions may be listed for a single individual, and more than one individual may be associated with a single contribution.
- ☐ Grammatically complete sentences are used.
- ☐ For manuscripts with 2 or more co-first authors, the method used to assign authorship order among these authors is stated.

☐ **AI disclosure**

- ☐ Disclose the use of artificial intelligence (AI) in research design as well as data extraction, analysis, and/or synthesis, including writing of the manuscript and preparation of figures, graphics, and other content.
- ☐ Specify the task performed, the name and version of the AI tool, and the date or range of dates of use.
- ☐ A statement indicating that the authors evaluated and take full responsibility for the output is also included, for example, “The authors assume full responsibility for ensuring the integrity and accuracy of AI output presented in this article.”
- ☐ If AI was not used, state the following: “The authors declare that no AI tools were used in the original research for or writing of this article.”

☐ **Conflict-of-interest statement**

- ☐ A statement consistent with the Journal’s [conflict-of-interest policy](#); if no author has a conflict, state the following: “The authors have declared that no conflict of interest exists.”
- ☐ If patents are involved, the patent or patent application number(s) are provided and the initials of the associated authors specified.

☐ **Funding support**

- ☐ Sources of support as a list including all necessary identifying information; e.g., (a) name of the funders; (b) grant names and numbers; and (c) initials of recipient authors, as appropriate
- ☐ [NIH Public Access Policy](#) compliance statement, if applicable.

☐ **Acknowledgments**

- ☐ Appropriate acknowledgments of, e.g., other scientists for help, advice, or gifts of drugs or animal models; formatted as a narrative paragraph.

☐ **Address for correspondence**

- ☐ The complete name as well as mailing and email addresses of the responsible party/corresponding author.

☐ **Present address (if applicable)**

- ☐ For authors whose affiliation has changed since completion of the work, specify the present affiliation and location.

☐ **References**

- ☐ Styled according to [How to prepare references for submission](#).

☐ **Display items –PLEASE NOTE**

- ☐ Maximum 9 figures and/or tables in total in the main text. Figures are limited to 10 parts (e.g., parts A–J).
- ☐ Figure legends
- ☐ Maximum 300 words.
- ☐ Each begins with a stand-alone title, irrespective of the individual parts.
- ☐ Figure parts are called out in boldface: **(A)**, **(B–D)**, **(C and E)**.
- ☐ Symbols and abbreviations introduced in figures are defined and used consistently throughout.
- ☐ Use of terms within the legends is consistent with that in the figures themselves.
- ☐ In each figure legend where appropriate, the statistical test(s) used are described.
- ☐ For each panel representing multiple experiments, the exact number of samples (*n*) is reported.
- ☐ For representative experiments, the number of times the experiment was conducted is reported.
- ☐ Error bars are defined either in Statistics or in the individual legends; e.g., “Data represent mean $\pm$ SEM.”
 - ☐ Variance around the mean and statistical analysis are not provided for figures representing fewer than 3 independent samples.
- ☐ For histological panels and insets, scale bars are defined or total original magnification is specified in the legends.
- ☐ Images and data sets are generally only presented once in a manuscript. Any instances in which images or data sets, including control data, are presented in multiple figure panels in the main text or supplement must be explicitly described in the figure legend. Previous publication of any images or data is clearly described.

☐ **Figures**

- ☐ Prepared according to [How to prepare figures for submission](#).
- ☐ Parts are labeled with capital letters: A, B, C, etc. —with no designated subparts.
- ☐ Graphs of quantitative data are presented as either dot plots, with average and appropriate error bars indicated; or box-and-whisker plots, with values defined in the legend (bounds of the boxes, lines within the boxes, whiskers, and any outlying values). Dynamite plunger plots are not permitted.
- ☐ If lanes in a gel or blot image are spliced together into a composite image, the lanes are distinguished with a thin vertical dividing line (black on a gray background; or white on a black background). State in the legend that the lanes were run on the same gel but were noncontiguous.

☐ **Tables**

- ☐ Prepared according to [How to prepare tables for submission](#).
- ☐ Prepared in Word table format (not pasted in from another application).
- ☐ Self-contained and self-explanatory.
- ☐ Preceded by brief titles.
- ☐ Each table fits on a single page (maximum 50 rows) and is presented on its own page.
- ☐ Callouts to footnotes (designated with superscript capital letters) are assigned alphabetically row by row.
- ☐ No subparts or subsections (for example, do not designate Table 1A and Table 1B).
- ☐ Column headings in tables apply to all values throughout the column; a new row of column headings may not be introduced within a table.
- ☐ See “[Methods](#)” above for reporting on demographics.