

Article format guide: Review, Technical Review and Roadmap

Please follow the below specifications when writing a Review, a Technical Review or a Roadmap article for *Nature Reviews*.

| Manuscript file | | |
|---|--------------------------|--|
| File types | <input type="checkbox"/> | Preferred file format is Microsoft Word (.docx, .doc or .rtf), LaTeX submissions are allowed (please discuss with the editor first) but we cannot accept PDF. |
| Title | <input type="checkbox"/> | Ideally a maximum of 55 characters (2 lines), or 82 characters (3 lines) including spaces. Abbreviations and punctuation should be avoided. |
| Author names | <input type="checkbox"/> | First name, middle initials (if applicable), last name; please check spelling. You may also include your name in non-Roman alphabets in parentheses after your name in English. For example, 'Mina Razzak (مينا رزاق)'. Currently supported languages are: Arabic, Chinese, Hebrew, Hindi, Japanese, Korean, Persian and Russian. |
| Affiliations | <input type="checkbox"/> | Department, Institution, City, State/province (if applicable), Country/Region. Please limit the number of affiliations, where possible, and ensure affiliations are clearly linked to the correct author. |
| Corresponding author | <input type="checkbox"/> | Name and email of corresponding author. |
| Abstract | <input type="checkbox"/> | Unstructured abstract; ideally 200 words maximum. |
| Introduction | <input type="checkbox"/> | Introductory section without subheadings. |
| Main text | <input type="checkbox"/> | Please follow word count recommendations as discussed with the editor. |
| | <input type="checkbox"/> | Three levels of headings are allowed. Ideal character limits are listed below: <ul style="list-style-type: none"> • 1st heading: 41 characters (1 line), or max. 82 characters (2 lines), including spaces • 2nd heading: 48 characters (1 line), or max. 96 characters (2 lines), including spaces • 3rd heading: 110 characters (2 lines), or max. 165 characters (3 lines), including spaces |
| | <input type="checkbox"/> | Please add continuous line numbers. |
| Concluding section | <input type="checkbox"/> | Brief summary section without subheadings. |
| References | <input type="checkbox"/> | Approximately 25 references per 1,000 words. Please use the <i>Nature Reviews</i> style described below and list references in following order: main text, tables, figures and then boxes. |
| Highlighted references | <input type="checkbox"/> | Select key references 5–10% of the total and provide a single sentence highlighting the significance for each; optional. |
| Acknowledgements | <input type="checkbox"/> | Optional. You can find our guidelines here . |
| Competing interests | <input type="checkbox"/> | Include in manuscript file; you will also be asked to complete this information during submission. You can find our policy here . |
| Review criteria | <input type="checkbox"/> | Optional for Review articles and only allowed for some journals (see below). |
| Related links | <input type="checkbox"/> | Optional. |
| Key points | <input type="checkbox"/> | 4-6 bullet points (30 words each) summarising the main findings of the paper. Mandatory for Review articles on some journals, but not allowed on others (see below). |
| Glossary | <input type="checkbox"/> | List of 1 sentence definitions; optional on some journals. |
| Display items | | |
| ≤7 display items (Tables, Figures and boxes) are allowed, cited in the main text in order in the format (FIG. 1). Original display items are preferred. | | |
| Tables | <input type="checkbox"/> | All tables should have a short title; footnotes are allowed and all cells must have an entry. All abbreviations should be defined. |
| Figures | <input type="checkbox"/> | Schematics will be redrawn but all elements should be labelled; all common file formats are accepted. Unless you are showing trends, figures containing data such as graphs should be provided in vector format where possible: PDF, EPS, or AI. Photographs should have a resolution of ≥300 dpi, ideally in CMYK colour format. Please provide native ChemDraw files (CDX) for chemical structures. |
| Figure legends | <input type="checkbox"/> | All figures need a brief legend (of ~200 words for large figures or ~100 words for small, 1 column figures) consisting of a short title, description of all figure components and defining all abbreviations. |
| Boxes | <input type="checkbox"/> | All boxes should have a short title and should be no more than 300 words. Subheadings; bullet points, and an illustration, table or equation are allowed. |
| Videos | <input type="checkbox"/> | Files can be ≤2 GB in size. Please check the section below for the allowed file types. |

| | | |
|---------------------------|--------------------------|--|
| Supplementary information | <input type="checkbox"/> | Supplementary display information can be included at the editor's discretion. If agreed, supplementary information should be supplied as a single file and is not edited and is not redrawn. |
|---------------------------|--------------------------|--|

Manuscript elements

Title

Abbreviations and punctuation should be avoided.

Affiliations

Our preference is to minimize the number of affiliations per author where possible. Affiliations should be limited to primary addresses or those that must be cited for funding reasons. Additional affiliations and/or funding information can be added to the Acknowledgements section. Each address should be a separate affiliation. For consortia, please follow [our consortia authorship guidelines](#). Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Abstract

The unstructured abstract should introduce the main themes of the article in a succinct, easily digestible way to engage a broad readership. All information mentioned in the abstract must be addressed in the main article. The abstract should contain minimal specialist details, no references and no display item citations.

Introduction

The opening section of the manuscript should provide vital background information and highlight why the topic is of importance. It should also make clear why it is timely to write on this topic. We recommend that you round off this section with a guiding paragraph that states clearly what will be discussed in the article.

Headings

Headings should be used to subdivide text to help guide non-specialist readers.

Concluding section

The article should end with a brief summary of the main points of the article, and include a discussion of the implications of the latest work and possible future research directions.

References

Please keep the reference list as up to date as possible and avoid referring extensively to your own published work. Citations of personal communications should be kept to a minimum and not included in the reference list; written permission from the correspondent must be provided to the editor.

Papers in the numbered reference list must have been published or accepted for publication by a named publication or be available in a recognized preprint server. For in-press articles, embargo times must be considered, and an e-mail confirming acceptance from the editors of the original research journal may be required. Meeting abstracts and presentations should be avoided but may be included at the editor's discretion.

References should be included as superscript numbers and cited sequentially in the following order: main text, tables, figures and then boxes. The numbered references should be listed at the end of the article in the following format:

1. Author, A. B. Title of the article. *Nat. Struct. Mol. Biol.* **7**, 101–109 (2003).
2. Author, A. B. & Author, B. C. Title of the article. *Nat. Cell Biol.* **6**, 123–131 (2001).
3. Author, A. B., Author, Z. X. & Author, B. C. Title of the article. *EMBO J.* **25**, 3454–3461 (2006).
4. Author, A. B. in *Title of Book* (ed. Surname, I. N.) 75–98 (Publisher, 2000).

If a reference has six or more authors, only the first author should be listed followed by 'et al.'.

Clinical trials should be cited as a reference using the following format:

5. US National Library of Medicine. *ClinicalTrials.gov* <https://clinicaltrials.gov/ct2/show/NCT01939899> (2016).

General websites can be provided in a 'Related links' box, but specific online articles should be cited as a reference using the following format:

6. Author. Title of online article. *Website name* http address (2015).

Preprints can be cited using the following format:

7. Author, A. B., Author, Z.Y. & Author, B. C. Title of the preprint. Preprint at <http://arxiv.org/abs/quant-ph/XXXXX> (2002)
8. Author, A. B., Author, Z.Y. & Author, B. C. Title of the preprint. Preprint at bioRxiv <https://doi.org/XXX> (2002)

The *Nature Reviews* style can be obtained for Endnote (see <http://www.endnote.com/support/enstyles.asp>).

Highlighted references (optional)

Please select key references (5–10% of the total) and provide a single sentence for each, highlighting the significance of the work.

Acknowledgements (optional)

The acknowledgement section can be used to thank anyone important in the publication of the work who does not qualify for authorship ([Authorship criteria here](#)) and to declare funders and grants if the publication is within the scope and directly arises from the grant. Please refer to the [Acknowledgment guidance](#) for more information.

Author contributions

Authors are requested to declare their authorship contribution during the submission process. A statement of these contributions will be published in the final article.

Competing interests

In the interests of transparency, any competing interests must be declared both within the text of the article and via our web-based Manuscript Tracking System upon submission. A detailed explanation can be found in the [Nature journals' policy on competing interests](#).

Authors can decline to disclose their competing interests if they are bound by confidentiality agreements, but we will publish the fact that they have declined to provide information. At the *Nature Reviews* journals, competing interests will be disclosed to referees and will be published online and/or in print.

Review criteria (optional on some journals)

You may provide details of how the research for the content of the Review was performed. This section is only published for Review articles on *Nat. Rev. Cardiol*, *Nat. Rev. Clin. Oncol*, *Nat. Rev. Endocrinol*, *Nat. Rev. Gastroenterol Hepatol*, *Nat. Rev. Nephrol*, *Nat. Rev. Neurol*, *Nat. Rev. Rheumatol* and *Nat. Rev. Urol*.

Related links (optional)

The article text can be linked to a number of online resources where appropriate. Online resources can provide further information on human disease and gene-based information (sequence, expression, protein structure and phenotype) on the human genome and model systems, and can include clinical trial repositories. Please provide links to any particular resources that would increase the usefulness of your article.

Key points (mandatory on some journals)

Please provide a list of 4–6 brief (30 words or fewer) bullet points that highlight the main messages of the Review. This section is required for Review articles in *Nat. Rev. Bioeng.*, *Nat. Rev. Cardiol.*, *Nat. Rev. Clin. Oncol.*, *Nat. Rev. Endocrinol.*, *Nat. Rev. Gastroenterol Hepatol.*, *Nat. Rev. Nephrol.*, *Nat. Rev. Neurol.*, *Nat. Rev. Rheumatol.*, *Nat. Rev. Urol.* and *Nat. Rev. Phys.* This section is optional for *Nat. Rev. Earth Environ.* This section is not allowed on: *Nat. Rev. Cancer.*, *Nat. Rev. Drug Discov.*, *Nat. Rev. Genet.*, *Nat. Rev. Immunol.*, *Nat. Rev. Microbiol.*, *Nat. Rev. Mol. Cell Biol.*, *Nat. Rev. Neurosci.*, *Nat. Rev. Psychol.* and *Nat. Rev. Mater.*

Glossary (optional)

Glossary terms are one-sentence definitions for specialist terms. The editor can provide guidance on the choice of glossary terms. Glossary terms are not allowed on *Nat. Rev. Bioeng.*

Supplementary information (optional)

Supplementary display items can be included at the editor's discretion if they add substantial value to the article. Supplementary items are not edited and supplementary figures are not redrawn by the journal, so authors are asked to ensure that they are accurately, clearly and succinctly presented. Supplementary items must be referred to in the main text, in the format Supplementary <Figure, Box, Table, Data or Video> <number>. For example, '(Supplementary Fig. 1)' or '(Supplementary video 1)'. They should be submitted in a single document (with a single reference list that is distinct from that in the main text) where possible, and appear in the order of citation in the main text. Large spreadsheets and videos can be supplied separately.

File types

Please submit the text of your manuscript as a Microsoft Word file (.docx, .doc or .rtf) or LaTeX file, but not as a PDF. See 'Figures' section for more information on acceptable file formats for display items.

Display items

Display items (Tables, Figures or Boxes) are used to help explain specific points made in the main text or to explain the background science. These items must be cited in the correct order within the main text in the format (FIG. 1). We prefer to avoid reproducing material from other publications, unless it is exceptionally informative.

Tables

Tables should be provided as part of the article document. These display items should be clear and as simple as possible, have a short title, no legend (but footnotes are allowed), contain at least three columns of data and preferably fit on one portrait-oriented A4 page. We recommend maximum 7 columns if cells contain text and 11 columns if cells contain data. All cells must have an entry, footnotes may be used and definitions of all abbreviations must be provided. Please provide separate image files for tables which contain graphical content (for example, chemical structures).

Figures

Figures can include drawn schematics, photographs, histology slides, medical imaging scans, graphs models, and/or chemical structures. Each figure must be fully labelled, have a short title and have a concise legend that guides the reader through each component of the figure. All abbreviations must be defined in the legend.

Schematics will be redrawn and developed by our in-house team of art editors in consultation with the editor after the article has been peer reviewed. All common file formats are accepted. Multiple panels (designated a, b, c, and so on) can be included in a single figure. Please bear in mind the following when drafting your figures: be clear in what the figure is meant to show; avoid unnecessary imagery; have a logical flow of information; use colour consistently; and provide additional reference material if necessary. Please refer to [our style guide for conceptual figures](#) for more information.

Photographs should be supplied in at least 300 dpi resolution at their final published size. Ideally, please also provide clean versions of the photos without overlaying annotation in CMYK in the following image formats: JPEG, TIFF, PSD and EPS. We will need to obtain consent to use photographs in which individuals can be identified; please discuss this with the editor.

Unless you are showing trends, figures containing data (such as complex graphs) or anything classed as industry standard (including 3D-rendered elements) should be provided in vector format where possible: PDF, EPS or AI. Please discuss with your editor if you don't have vector files for these figures.

Chemical structures should be provided as native ChemDraw files (CDX). Please refer to our [Style guide for chemical structures](#) and [download the ChemDraw template](#).

Please refer to our [guide to help you develop your schematics](#) and [guide to help you submit high quality data figures](#) for more information.

Boxes

Boxes should be provided as part of the article document. These display items can be useful for explaining basic concepts or for providing peripheral discussions of interest. Boxes must have a short title, can contain a maximum of 300 words and may include an illustration, a table or equations. Subheadings and bullet points are also permitted. Footnotes may be used sparingly.

Videos

Videos can be included as supplementary information online. We support the following video formats: 3gp, asf, avi, flv, m1v, m2p, m2ts, m2v, m4a, m4v, mov, mp2, mp3, mp4, mpeg, mpg, mts, mxf, ogv, swf, wav, webm, wmv. The maximum file size supported is 2 GB.