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ABOUT THE JOURNAL

Aims and Scope

Bone Research is an Open Access, fully peer-reviewed journal publishing the foremost progress and novel understanding of all aspects of bone science. The journal highlights the breakthrough discoveries in basic and clinical aspects of bone biology, pathophysiology and regeneration, as well as other significant findings related to bone.

Covering all aspects of bone science including its subspecialties, *Bone Research* publishes original, high-quality, peer-reviewed papers including research articles, reviews, correspondence and comments.

Original research articles will be published under, but not limited to, the following headings:

- Morphogenesis of bone and cartilage;
- Musculoskeletal diseases;
- Metabolic bone diseases;
- Bone regeneration and bone tissue engineering;

- Bone related biomaterials;
- Clinical studies.

Journal Details

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ARTICLE TYPES

Article Description	Abstract	Word Limit	Tables/ Figures	References guideline
Article A complete, comprehensive report of original research. An Article usually has a fairly complex narrative that is based on multiple techniques and/or approaches.	Unstructured abstract; max word limit: 250	4,000-6,000 words excluding abstract, references, figures and tables	More than 5	No less than 40
Correspondence The Editors will occasionally consider the publication of correspondence developing the debate relating to a particular journal article that has already been published in the journal. These would usually be published alongside a reply from the authors of the original article.	None	800 words excluding, references, figures and tables	None	No limits
Comment Comments are an analysis of recently published papers of particular interest. This is a commission-only section.	None	1,500 words excluding references	No Limits	No limits

Editorial The editors invite editorials to discuss a topical issue or a paper published in the journal and set the problems addressed by the paper in the wider context of the field. These are usually commissioned, but unsolicited editorial submissions are considered for publication.	None	2,000 words excluding references	No Limits	No limits
Review Article A comprehensive synthesis and/or analysis of specific topics. A short Introduction giving the rationale for the review should be followed by sections with appropriate subheadings, followed by a conclusions section at the end. The standard footer headings (Acknowledgements, Contributions, Competing Interests, Funding) are required. All invited reviews will undergo peer review prior to acceptance.	Unstructured abstract; max word limit: 250	No less than 8,000 words excluding abstract, references, figures and tables	No less than 5	No less than 100

Word limit

Word limits are provided for guidance only. The Editors will consider submissions that exceed the recommended limit, subject to feedback received during peer review.

PREPARATION OF ARTICLES

Article Requirements

Cover letter

Each manuscript must be accompanied by a cover letter including statements that:

- Highlight of the current manuscript should be limited to no more than 2 short sentences;
- All authors agree with the submission;
- The work has not been published or submitted for publication elsewhere, either completely or in part, or in another form or language;
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- Conflict of Interest Statement

Organization of manuscript

For first submissions (i.e. not revised manuscripts), authors may choose to incorporate the manuscript text and figures into a single file (Microsoft Word or TeX/LaTeX) up to 30 MB in size — the figures may be inserted within the text at the appropriate positions. **Article should include continuous line number.** Supplementary Information should be combined and supplied as a separate file, preferably in Word format.

Alternatively authors can follow the guidelines outlined below, which must be followed when submitting files for revisions.

All textual content should be provided in a single file, prepared using either Microsoft Word or TeX/LaTeX; figures should be provided in individual files. The

manuscript text file should include the following parts, in order: a title page with author affiliations and contact information (the corresponding author should be identified with an asterisk); the sections required for each content type (see information for different content types) then References, Acknowledgements (optional), Author Contributions (Articles only), Competing Financial Interests statement, Figure Legends and Tables. Footnotes to the text are not allowed and any such material should be incorporated into the text as parenthetical matter.

Please note that Articles must contain the following components in the order stated. Other Article Types needn't following the order. Please see below for further details.

- Title page
- Abstract
- Introduction
- Results
- Discussion
- Materials and methods
- Acknowledgements
- Conflict of interests
- Contributions
- References
- Figure legends
- Tables
- Figures

(i) Title page

The title page should include a succinct title (less than 200 characters); a concise running title (which should normally not exceed 50 characters); the full names of all authors including their given names; the affiliations (including city, state, country and zip code) of all authors; the official email addresses of all authors, and the full contact details of the

corresponding author (including telephone and fax numbers). The maximum corresponding authors for *Bone Research* are 2, and the maximum co-first authors for one submission are 3. Please also list the contributions for each author in the title page.

(ii) *Abstract*

A brief abstract (maximum 250 words) should state the purpose, basic procedures, main findings and principal conclusions of the study. The abstract should not contain abbreviations or references and should not be structured.

(iii) *Introduction*

The Introduction should summarize the rationale for the study and outline pertinent background material. The Introduction should not contain either results or conclusions.

(iv) *Results*

The Results should be presented in a logical sequence in the text, tables and figures; repetitive presentation of the same data in different forms should be avoided. The Results should not include material appropriate to the Discussion.

(v) *Discussion*

The Discussion should not reiterate Results, but rather should consider them in relation to any hypotheses advanced in the Introduction. This may include an evaluation of methodology and the relationship of new information to the existing body of knowledge in that field.

(vi) *Materials and methods*

Materials and Methods should be described in sufficient detail to allow the experimental work to be reproduced in another laboratory, and to leave the reader in no doubt as to how the results were derived.

Availability of data, materials and methods: An inherent principle of publication is that others should be able to replicate and build upon the authors' published claims. A condition of publication is that authors [are required to make materials, data, code](#), and associated protocols promptly available to readers without undue qualifications.

Submission of a manuscript to *Bone Research* implies that materials described in the manuscript, including all relevant raw data, will be freely available to any scientist wishing to use them for non-commercial purposes, without breaching participant confidentiality.

Data availability statements: Data availability statements provide a statement about where data supporting the results reported in a published article can be found - including, where applicable, hyperlinks to publicly archived datasets analysed or generated during the study. For all original research articles, we require the provision of data availability statements, examples and details can be seen on our [data policy](#) web page. The statement should be placed at the end of the Methods section (titled, 'Data availability'), after the code availability statement if one is present. For further guidance, please refer to the Data availability and data citations [policy information](#) and [Frequently Asked Questions \(FAQs\)](#).

Bone Research strongly encourages that all datasets on which the conclusions of the paper rely should be available to readers. We encourage authors to ensure that their datasets are either deposited in publicly available repositories (where available and appropriate) or presented in the main manuscript or additional supporting files whenever possible. Please see Springer Nature's [information on recommended repositories](#). General repositories - for all types of research data - such as [figshare](#) and [Dryad](#) may be used where appropriate.

Where a widely established research community expectation for data archiving in public repositories exists, submission to a community-endorsed, public repository is [mandatory](#). Persistent identifiers (such as DOIs and accession numbers) for relevant datasets must be provided in the paper.

(vii) *Acknowledgments*

Authors should acknowledge the source of financial grants and other funding, and declare any industrial links or affiliations. The contribution of colleagues or institutions should also be acknowledged. Personal thanks and thanks to anonymous reviewers should not be included.

(viii) *Conflict of interests*

A conflict of interest statement must be included for each contributing author. Please see the Conflict of Interest guidelines in the Editorial Policies section for more information and for guidelines on what constitutes a conflict of interest.

(ix) *References*

References: All necessary references should be included in order to credit previous work directly relevant to the article. References should follow the *Nature* style available in most reference management software. In the text they should appear as superscript numbers starting at 1 and at the end of the paper they should be listed (double-spaced) in numerical order corresponding to the order of citation in the text. Where a reference is to appear next to a number in the text, for example, following an equation, chemical formula or biological acronym, citations should be written as (ref. X) and not as superscript. Example: "detectable levels of endogenous Bcl-2 (ref. 3), as confirmed by western blot."

All authors should be listed for papers with up to five authors; for papers with more than five authors, the first only should be listed, followed by *et al.* Abbreviations for titles of medical periodicals should conform to those used in the latest edition of Index Medicus. The first and last page numbers for each reference should be provided. Abstracts must be identified as such. Papers in press and preprints hosted on a recognized server may be included in the list of references.

Personal communications must be allocated a number and included in the list of references in the usual way or simply referred to in the text; the authors may choose which method to use. In either case authors must obtain

permission from the individual concerned to quote his/her unpublished work.

Examples:

Journal article, up to five authors:

Belkaid, Y. & Rouse, B. T. Natural regulatory T cells in infectious disease. *Nat. Immunol.* **6**, 353–360 (2005).

Journal article, e-pub ahead of print:

Bonin, M. *et al.* F-ara-A pharmacokinetics during reduced-intensity conditioning therapy with fludarabine and busulfan. *Bone Marrow Transplant.*
<http://dx.doi.org/10.1038/sj.bmt.1705565> (2007).

Journal article, in press:

Gallardo, R. L., Juneja, H. S. & Gardner, F. H. Normal human marrow stromal cells induce clonal growth of human malignant T-lymphoblasts. *Int. J. Cell Cloning* (in the press).

Complete book:

Atkinson, K. *et al.* (eds) *Clinical Bone Marrow and Blood Stem Cell Transplantation* (Cambridge Univ. Press, 2004).

Chapter in book:

Harley, N. H. & Vivian, L. in *Mechanisms of Disease* 4th edn, Vol. 2 (eds Sodeman, W. A. & Smith, A.) Ch. 3 (Saunders, 1974).

Abstract:

Feig, S. A. *et al.* Bone marrow transplantation for neuroblastoma. *Exp. Hematol.* **13**, abstr. 102 (1985).

Preprint:

Starrfelt, J. & Liow, L.H. How many dinosaur species were there? Fossil bias and true richness estimated using a Poisson sampling model (TRiPS). Preprint at <http://biorxiv.org/content/early/2015/12/04/025940> (2015).

Research dataset:

Hao, Z., AghaKouchak, A., Nakhjiri, N. & Farahmand, A. Global Integrated Drought Monitoring and Prediction System (GIDMaPS) Data sets. figshare.
<http://dx.doi.org/10.6084/m9.figshare.853801> (2014).

(x) Figures

Figures and images should be labelled sequentially, numbered and cited in the text. Production-quality figures are not required at initial submission, but to avoid potential substantial revisions at later stages you may wish to note some of the guidelines below even at the initial submission stage.

It is recommended that you convert all your figures to JPEG before generating PDFs or uploading individual files. This will reduce the file sizes and the amount of time it takes the files to upload to our submission site and will also give you a closer approximation to the way your figures will appear on our site. If you choose to submit your files in PowerPoint format, please do not make a JPEG of these within

PowerPoint. The conversion is more successful when a raw PowerPoint file is submitted.

General Figure Guidelines

Use distinct colours with comparable visibility and consider colour-blind individuals by avoiding the use of red and green for contrast. Recoloring primary data, such as fluorescence images, to colour-safe combinations such as green and magenta, turquoise and red, yellow and blue or other accessible colour palettes is strongly encouraged. Use of the rainbow colour scale should be avoided. Use solid colour for filling objects and avoid hatch patterns. Avoid background shading. Figures divided into parts should be labelled with a lower-case, boldface 'a', 'b', etc. in the top left-hand corner. Labelling of axes, keys and so on should be in 'sentence case' (first word capitalized only) with no full stop. Units must have a space between the number and the unit, and follow the nomenclature common to your field. Unusual units or abbreviations should be spelled out in full, or defined in the legend.

Final Figure Submission Guidelines

Should your manuscript be accepted, you will receive more extensive instructions for final submission of display items. However, a summary of our guidelines for final figure preparation are included here.

- Each figure should be saved in a separate file. Figures including multiple parts (e.g. Fig.1a, 1b, 1c) should be saved in a single file (e.g. Figure1a-c). The figure number should be placed above each figure. Figure legends should be inserted in the article's text file.
- Images should be saved in RGB color mode at 300 dpi or higher resolution.
- Use the same typeface (Arial, Helvetica or Times New Roman) for all figures. Use symbol font for Greek letters.
- We prefer vector files with editable layers. Acceptable formats are: .ai, .eps, .pdf, .ps, .svg for fully editable vector-based art; layered .psd or .tiff for editable layered art; .psd, .tif, .jpeg or .png for bitmap images; .ppt if fully editable and without styling effects; ChemDraw (.cdx) for chemical structures.
- Figures are best prepared at the size you would expect them to appear in print. At this size, the optimum font size is 8pt and no lines should be thinner than 0.25 pt (0.09 mm).

Display items that contain chemical structures should be produced using ChemDraw or a similar program. Authors using ChemDraw should use our ChemDraw Template and submit the final files at 100% as .cdx files. All chemical compounds must be assigned a bold, Arabic numeral in the order in which the compounds are presented in the manuscript text.

(xi) Tables

Tables should be labelled sequentially as Table 1, Table 2, etc. Each table should be numbered, titled and cited in the text. Reference to table footnotes should be made by using Arabic numerals. Tables should not duplicate the content of

the text. They should consist of at least two columns, and each column should have a heading. Authors should ensure that the data in the tables are consistent with those cited in the relevant places in the text, totals add up correctly, and percentages have been calculated correctly. Unlike figures or images, tables may be embedded into the main manuscript file if necessary, or supplied as separate electronic files.

If a table or figure has been published before, the authors must obtain written permission to reproduce the material in both print and electronic formats from the copyright owner and submit it with the manuscript. This also applies to quotes, illustrations and other materials taken from previously published works not in the public domain. The original source should be cited in the figure caption or table footnote.

Artwork Guidelines

Color figures

Color figures must be supplied in the following format.
For Single Images:

Width	500 pixels (authors should select "constrain proportions", or equivalent instructions, to allow the application to set the correct height automatically.)
Resolution	125 dpi (dots per inch)
Format	JPEG for photographs GIF for line drawings or charts
Filenaming	Please save image with .jpg or .gif extension to ensure it can be read by all platforms and graphics packages.

For Multi-part Images:

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Black and white images

- Image resolution of at least 300 dpi at publication size
- Images should be scanned at a minimum of 300 dpi

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- If lanes are removed, and once separate parts of an image are joined together, a black, white or grey line should indicate clearly where the image was cut
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- Protein molecular weights or DNA fragment sizes should be indicated for all figure panels showing gel electrophoresis

Graphs, Histograms and Statistics

- Error bars must be described in the figure legend
- Axes on graphs should extend to zero, except for log axes
- Statistical analyses (including error bars and p values) should only be shown for independently repeated experiments, and must not be shown for replicates of a single experiment
- The number of times an experiment was repeated (N) must be stated in the legend

House Style

As the electronic submission will provide the basic material for typesetting, it is important that papers are prepared in the general editorial style of the journal.

1. Do not make rules thinner than 1 pt (0.36 mm)
2. Use a coarse hatching pattern rather than shading for tints in graphs
3. Color should be distinct when being used as an identifying tool
4. Use SI units throughout
5. Spaces, not commas should be used to separate thousands
6. Abbreviations should be preceded by the words for which they stand in the first instance of use and should not be used for terms used fewer than 4 times
7. Text should be double spacing with a wide margin
8. Use a common word-processing package (such as Microsoft Word) for the text. Embed tables converted into images at the end of the Word document, or as a separate file in whichever program you used to generate them
9. If you submit raw data, this can be done in Excel, or tab/comma delimited format
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Setup, then click the Layout tab. In the Apply to box, select Whole document, click Line Numbers then select the Add line numbering check box, followed by Continuous.

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File formats for manuscript files, figures and tables that are acceptable for our electronic manuscript submission process are given on the online forms. Further advice on file types is also available from the [Tips](#) webpage. Please follow the artwork guidelines above for submitting figures, and use a common word-processing package (such as Microsoft Word) for the text. Either embed tables converted into images at the end of your Word document, or as a separate file in whichever program you used to generate them. If you submit raw data, this can be done in Excel, or tab/comma delimited format.

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Supplementary information is peer-reviewed material directly relevant to the conclusions of an article that cannot be included in the printed version owing to space or format constraints. It is posted on the journal's website and linked to the article when the article is published and may consist of data files, graphics, movies or extensive tables. The article must be complete and self-explanatory without the supplementary information. Supplementary information enhances a reader's understanding of the manuscript but is not essential to that understanding. Supplementary information must be supplied to the Editorial Office in its final form for peer review. On acceptance the final version of the peer reviewed supplementary information should be submitted with the accepted manuscript.

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Authors should ensure that supplementary information is supplied in its FINAL format because it is not subedited and will appear online exactly as originally submitted. It can neither be altered, nor added to, after the paper has been accepted for publication.

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Authors should:

- Include a text summary (no more than 50 words) to describe the contents of each file.
- Identify the types of files (file formats) submitted.

- Include the text 'Supplementary information accompanies the manuscript on the *Bone Research* website <http://www.nature.com/boneres> at the end of the article and before the references.

Accepted file formats

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- HTML files (.html)
- MPEG movie files (.mpg)
- JPEG image files (.jpg)
- Sound files (.wav)
- Plain ASCII text (.txt)
- Acrobat files (.pdf)
- MS Word documents (.doc)
- Postscript files (.ps)
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- TeX or LaTeX (.tex) files

File sizes must be as small as possible, so that they can be downloaded quickly. Images should not exceed 640 x 480 pixels (approximately 23 x 17 cm at 72dpi), and we would recommend 480 x 360 pixels as the maximum frame size for movies. We also recommend a frame rate of 15 frames per second. If applicable to the presentation of the supplementary information, use a 256-color palette. Please consider the use of lower specification for all of these points if the supplementary information can still be represented clearly. Our recommended maximum data rate is 150 KB/s. The number of files should be limited to eight, and the total file size should not exceed 8 MB. Individual files should not exceed 1 MB. Please seek advice from the Editorial Office before sending files larger than our maximum size to avoid delays in publication.

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Authors submitting a revised manuscript after review are asked to include the following:

- (1) A rebuttal letter, indicating point-by-point how you have addressed the comments raised by the reviewers. If you disagree with any of the points raised, please provide adequate justification in your letter.
- (2) A marked-up version of the manuscript that highlights changes made in response to the reviewers' comments in order to aid the Editors and reviewers.
- (3) A 'clean' (non-highlighted) version of the manuscript.

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Each author must have contributed sufficiently to the intellectual content of the submission. The corresponding author should list all authors and their contributions to the work. Any changes to the author list after submission, such as a change in the order of the authors, or the deletion or addition of authors, must be approved by a signed letter from every author. The corresponding author must confirm that he or she has had full access to the data in the study and final responsibility for the decision to submit for publication. To qualify as a contributing author, one must meet all of the following criteria:

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Clinical Trials

As defined by the International Committee of Medical Journal Editors (ICMJE), a clinical trial is any research project that prospectively assigns human subjects to intervention and comparison groups to study the cause-and-effect relationship between a medical intervention and a health outcome. A medical intervention is any intervention used to modify a health outcome and includes but is not limited to drugs, surgical procedures, devices, behavioural treatments, and process-of-care changes. A trial must have at least one prospectively assigned concurrent control or comparison group in order to trigger the requirement for registration. Nonrandomised trials are not exempt from the registration requirement if they meet the above criteria.

When reporting experiments on human subjects, please indicate whether the procedures were in accordance with the ethical standards of the responsible committee on human experimentation (institutional or regional) or with the Helsinki Declaration of 1975 (as revised in 1983). Include Institutional Review Board or Animal Care and Use Committee approvals.

All clinical trials must be registered in a public registry prior to submission. The journal follows the trials registration policy of the ICMJE (www.icmje.org) and

considers only trials that have been appropriately registered before submission, regardless of when the trial closed to enrolment. Acceptable registries must meet the following ICMJE requirements:

- be publicly available, searchable, and open to all prospective registrants
- have a validation mechanism for registration data
- be managed by a not-for-profit organization

The trial registry number for eligible papers will be collected during the submission process.

Toolkits

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[Committee on Publication Ethics](#)

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In the interests of transparency and to help readers form their own judgments of potential bias, authors must declare whether or not there are any competing interests in relation to the work described. This information must be included in their cover letter and after the acknowledgements of their manuscript. In cases where the authors declare a competing interest, a statement to that effect is published as part of the article. If no such conflict exists, the statement will simply read that the authors have nothing to disclose.

For the purposes of this statement, competing interests are defined as those of a financial nature that, through their potential influence on behaviour or content, or from perception of such potential influences, could undermine the objectivity, integrity or perceived value of a publication. They can include any of the following:

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The statement must contain an explicit and unambiguous statement describing any potential conflict of interest, or lack thereof, for any of the authors as it relates to the subject of the report. Examples include "Dr. Smith receives compensation as a consultant for XYZ Company," "Dr. Jones and Dr. Smith have financial holdings in ABC Company," or "Dr. Jones owns a patent on the diagnostic device described in this report." These statements acknowledging or denying conflicts of interest must be included in the manuscript under the heading Conflict of Interest. The Conflict of Interest disclosure appears in the cover letter, in the manuscript submission process and before the References section in the manuscript.

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Examples of declarations are:

- Conflict of Interest.
The authors declare no conflict of interest.
- Conflict of Interest.
Dr Caron's work has been funded by the NIH. He has received compensation as a member of the scientific advisory board of Acadia Pharmaceutical and owns stock in the company. He also has consulted for Lundbeck and received compensation. Dr Rothman and Dr Jensen declare no potential conflict of interest.

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