



## TABLE OF CONTENTS

●	<b>Description</b>	<b>p.1</b>
●	<b>Audience</b>	<b>p.2</b>
●	<b>Impact Factor</b>	<b>p.2</b>
●	<b>Abstracting and Indexing</b>	<b>p.2</b>
●	<b>Editorial Board</b>	<b>p.2</b>
●	<b>Guide for Authors</b>	<b>p.4</b>



## DESCRIPTION

*Cognition* is an international journal that publishes theoretical and experimental papers on the study of the mind. It covers a wide variety of subjects concerning all the different aspects of **cognition**, ranging from biological and experimental studies to formal analysis. Contributions from the fields of **psychology, neuroscience, linguistics, computer science, mathematics, ethology** and **philosophy** are welcome in this journal provided that they have some bearing on the functioning of the mind. In addition, the journal serves as a forum for discussion of social and political aspects of cognitive science.

Papers will be selected on the basis of their scientific quality and degree of innovation. A paper's theoretical relevance to cognition, overall soundness of the argument and degree of empirical motivation, especially from converging sources, are more important than adherence to specific methodological principles. Because *Cognition* enjoys a wide readership from many disciplines, authors should explicitly consider the general theoretical issues raised by their work and its relevance to other topics and methods. Material should be suited to the character of the Journal, and should describe work done and methods used in a clear and explicit manner (allowing reproduction of the methods by others).

*Cognition* occasionally publishes special issues devoted to a research area that has seen rapid recent progress, promising new approaches, and convergence among different disciplines.

Contributions:

- Full theoretical and experimental papers on the study of the mind
- Brief articles reporting original empirical findings, major theoretical advances or crucial developments that warrant rapid communication to the scientific community
- Proposals for special issues on a new and important area in the field
- Discussions
- Book reviews

Reviewers please refer to [Editorial Policy on Reviewing for Cognition](#).

*Cognition* publishes many of the most important papers in cognitive science and is the premier international and interdisciplinary journal in the field. It is required reading for anyone who wishes to keep up to date in this exciting research area.

## AUDIENCE

---

Psychologists, Linguists, Neuroscientists, Ethologists, Philosophers, Epistemologists, Experts in Artificial Intelligence.

## IMPACT FACTOR

---

2016: 3.414 © Clarivate Analytics Journal Citation Reports 2017

## ABSTRACTING AND INDEXING

---

Current Contents/Social & Behavioral Sciences  
Child Development Abstracts and Bibliography  
PsycINFO  
Social Sciences Citation Index  
Sociological Abstracts  
BIOSIS  
Computer Abstracts  
EIC/Intelligence  
Linguistic Inquiry  
Scopus  
EMBASE  
Linguistic Bibliography (BOnline)  
MathEduc

## EDITORIAL BOARD

---

### *Senior Editors*

**Randi Martin**, Rice University, USA  
**Manos Tsakiris**, Royal Holloway, UK  
**Johan Wagemans**, KU Leuven, Belgium

### *Associate Editors*

**Sarah Brown-Schmidt**, Vanderbilt University, USA  
**Jacob Feldman**, New Brunswick, USA  
**Silvia Gennari**, University of York, UK  
**J. Kiley Hamlin**, University of British Columbia, Canada  
**Elsi Kaiser**, University of Southern California, USA  
**Gregory Murphy**, New York University, USA  
**Bert Reynvoet**, KU Leuven Kulak, Belgium

### *Editorial Board*

**Gerry Altmann**, University of Connecticut, USA  
**Daniel Ansari**, Western University, Canada  
**Ian Apperly**, University of Birmingham, UK  
**Renée Baillargeon**, University of Illinois at Urbana-Champaign, USA  
**David Barner**, UC San Diego, USA  
**Daniel Bartels**, University of Chicago, USA  
**Andrew Bayliss**, University of East Anglia, UK  
**Christina Becchio**, Università di Torino, Italy  
**Michael Beran**, Georgia State University, USA  
**Paul Bloom**, Yale University, USA  
**Elizabeth M. Brannon**, University of Pennsylvania, USA  
**Josep Call**, University of St Andrews, UK  
**Susan Carey**, Harvard University, USA  
**Albert Costa**, Università Vita-Salute San Raffaele, Italy  
**Sarah Creel**, University of California at San Diego (UCSD), USA  
**Fiery Cushman**, Harvard University, USA  
**Markus Damian**, University of Bristol, UK  
**Gary Dell**, University of Illinois at Urbana-Champaign, USA  
**John Dewey**, Finlandia University, USA

**Ido Erev**, Technion - Israel Institute of Technology, Israel  
**Lisa Feigenson**, Johns Hopkins University, USA  
**Heather Ferguson**, University of Kent, UK  
**Cynthia Fisher**, University of Illinois at Urbana-Champaign, USA  
**Ori Friedman**, University of Waterloo, Canada  
**Simon Garrod**, University of Glasgow, UK  
**Lila Gleitman**, Merion Station, Pennsylvania, USA  
**Geoff Goodwin**, University of Pennsylvania, USA  
**Kurt Gray**, University of North Carolina at Chapel Hill, USA  
**Joshua Greene**, Harvard University, USA  
**James Hampton**, City, University of London, UK  
**Bernhard Hommel**, Universiteit Leiden, Netherlands  
**Bruce M. Hood**, University of Bristol, UK  
**Gethin Hughes**, University of Essex, UK  
**Matt Jones**, University of Colorado Boulder, USA  
**Frank Keil**, Yale University, USA  
**Albert Kim**, University of Colorado, USA  
**Cristine Legare**, University of Texas at Austin, USA  
**Tania Lombrozo**, University of California at Berkeley, USA  
**Matthew Longo**, Birkbeck, University of London, UK  
**James Magnuson**, University of Connecticut, USA  
**Barbara Malt**, Lehigh University, USA  
**Michael Masson**, University of Victoria, Canada  
**Timothy McNamara**, Vanderbilt University, USA  
**James McQueen**, Radboud Universiteit Nijmegen, Netherlands  
**Jacques Mehler**, SISSA Laboratory of Cognitive neurosciences, Italy  
**Toben Mintz**, University of Southern California, USA  
**Cathleen Moore**, University of Iowa, USA  
**Nora S. Newcombe**, Temple University, USA  
**Shaun Nichols**, University of Arizona, USA  
**Mante Nieuwland**, Max Planck Institute for Psycholinguistics, Netherlands  
**Daniel Oppenheimer**, UCLA Psychology, USA  
**Pdraig O'Seaghdha**, Lehigh University, USA  
**Daniel Osherson**, Princeton University, USA  
**David Over**, Durham University, UK  
**Amy Perfors**, University of Adelaide, Australia  
**Josef Perner**, Universität Salzburg, Austria  
**Gabriel Radvansky**, University of Notre Dame, USA  
**Marjorie Rhodes**, New York University, USA  
**Lance Rips**, Northwestern University, USA  
**Jenny Saffran**, University of Wisconsin at Madison, USA  
**Laurie Santos**, Yale University, USA  
**Simone Schutz-Bosbach**, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany  
**Natalie Sebanz**, Central European University, Hungary  
**Andrea Serino**, Università di Bologna, Italy  
**Kristin Shutts**, University of Wisconsin at Madison, USA  
**Michael Tomasello**, Max Planck Institute (MPI) for Evolutionary Anthropology, Germany  
**Timothy Welsh**, University of Toronto, Canada  
**Janet F. Werker**, University of British Columbia, Canada  
**Katherine White**, University of Waterloo, Canada  
**Fei Xu**, University of British Columbia, Canada  
**Liane Young**, Boston College, USA

## GUIDE FOR AUTHORS

---

### *Your Paper Your Way*

We now differentiate between the requirements for new and revised submissions. You may choose to submit your manuscript as a single Word or PDF file to be used in the refereeing process. Only when your paper is at the revision stage, will you be requested to put your paper in to a 'correct format' for acceptance and provide the items required for the publication of your article.

**To find out more, please visit the Preparation section below.**

### INTRODUCTION

*Cognition* is an international journal that publishes theoretical and experimental papers on the study of the mind. It covers a wide variety of subjects concerning all the different aspects of cognition, ranging from biological and experimental studies to formal analysis. Contributions from the fields of psychology, neuroscience, linguistics, computer science, mathematics, ethology and philosophy are welcome in this journal provided that they have some bearing on the functioning of the mind. In addition, the journal serves as a forum for discussion of social and political aspects of cognitive science.

#### *Types of contribution*

- Full theoretical and experimental papers on the study of the mind
- Brief articles reporting original empirical findings, major theoretical advances or crucial developments that warrant rapid communication to the scientific community
- Proposals for special issues on a new and important area in the field
- Discussions

Full Length Articles need not be any specific length, but authors must confine themselves to the maximum required by the subject matter. Authors are encouraged to be as succinct as possible. *Cognition* articles are not, generally speaking, primers or tutorials. They are focused arguments in favor of a relatively specific hypothesis about cognition or language.

Short Communications must be no more than three thousand words long excluding title, author affiliations, acknowledgments, footnotes, bibliography and figures (this word limit must be strictly observed due to page limits - note that the 3,000 words does include the abstract). Please provide a word count on the title page.

#### *Contact details for submission*

Any questions prior to submission (e.g. appropriateness of manuscript) can be sent to "Cognition", to [cognition@elsevier.com](mailto:cognition@elsevier.com)

### *Submission checklist*

You can use this list to carry out a final check of your submission before you send it to the journal for review. Please check the relevant section in this Guide for Authors for more details.

#### **Ensure that the following items are present:**

One author has been designated as the corresponding author with contact details:

- E-mail address
- Full postal address

All necessary files have been uploaded:

#### *Manuscript:*

- Include keywords
- All figures (include relevant captions)
- All tables (including titles, description, footnotes)
- Ensure all figure and table citations in the text match the files provided
- Indicate clearly if color should be used for any figures in print

*Graphical Abstracts / Highlights files* (where applicable)

*Supplemental files* (where applicable)

Further considerations

- Manuscript has been 'spell checked' and 'grammar checked'
- All references mentioned in the Reference List are cited in the text, and vice versa

- Permission has been obtained for use of copyrighted material from other sources (including the Internet)
- A competing interests statement is provided, even if the authors have no competing interests to declare
- Journal policies detailed in this guide have been reviewed
- Referee suggestions and contact details provided, based on journal requirements

For further information, visit our [Support Center](#).

## BEFORE YOU BEGIN

### *Ethics in publishing*

Please see our information pages on [Ethics in publishing](#) and [Ethical guidelines for journal publication](#).

### *Human and animal rights*

If the work involves the use of human subjects, the author should ensure that the work described has been carried out in accordance with [The Code of Ethics of the World Medical Association](#) (Declaration of Helsinki) for experiments involving humans; [Uniform Requirements for manuscripts submitted to Biomedical journals](#). Authors should include a statement in the manuscript that informed consent was obtained for experimentation with human subjects. The privacy rights of human subjects must always be observed.

All animal experiments should comply with the [ARRIVE guidelines](#) and should be carried out in accordance with the U.K. Animals (Scientific Procedures) Act, 1986 and associated guidelines, [EU Directive 2010/63/EU for animal experiments](#), or the National Institutes of Health guide for the care and use of Laboratory animals (NIH Publications No. 8023, revised 1978) and the authors should clearly indicate in the manuscript that such guidelines have been followed.

### *Declaration of interest*

All authors must disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential conflicts of interest include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. Authors must disclose any interests in two places: 1. A summary declaration of interest statement in the title page file (if double-blind) or the manuscript file (if single-blind). If there are no interests to declare then please state this: 'Declarations of interest: none'. This summary statement will be ultimately published if the article is accepted. 2. Detailed disclosures as part of a separate Declaration of Interest form, which forms part of the journal's official records. It is important for potential interests to be declared in both places and that the information matches. [More information](#).

### *Submission declaration and verification*

Submission of an article implies that the work described has not been published previously (except in the form of an abstract or as part of a published lecture or academic thesis or as an electronic preprint, see '[Multiple, redundant or concurrent publication](#)' section of our ethics policy for more information), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically without the written consent of the copyright-holder. To verify originality, your article may be checked by the originality detection service [Crossref Similarity Check](#).

### *Changes to authorship*

Authors are expected to consider carefully the list and order of authors **before** submitting their manuscript and provide the definitive list of authors at the time of the original submission. Any addition, deletion or rearrangement of author names in the authorship list should be made only **before** the manuscript has been accepted and only if approved by the journal Editor. To request such a change, the Editor must receive the following from the **corresponding author**: (a) the reason for the change in author list and (b) written confirmation (e-mail, letter) from all authors that they agree with the addition, removal or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed.

Only in exceptional circumstances will the Editor consider the addition, deletion or rearrangement of authors **after** the manuscript has been accepted. While the Editor considers the request, publication of the manuscript will be suspended. If the manuscript has already been published in an online issue, any requests approved by the Editor will result in a corrigendum.

## Copyright

Upon acceptance of an article, authors will be asked to complete a 'Journal Publishing Agreement' (see [more information](#) on this). An e-mail will be sent to the corresponding author confirming receipt of the manuscript together with a 'Journal Publishing Agreement' form or a link to the online version of this agreement.

Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. [Permission](#) of the Publisher is required for resale or distribution outside the institution and for all other derivative works, including compilations and translations. If excerpts from other copyrighted works are included, the author(s) must obtain written permission from the copyright owners and credit the source(s) in the article. Elsevier has [preprinted forms](#) for use by authors in these cases.

For open access articles: Upon acceptance of an article, authors will be asked to complete an 'Exclusive License Agreement' ([more information](#)). Permitted third party reuse of open access articles is determined by the author's choice of [user license](#).

## Author rights

As an author you (or your employer or institution) have certain rights to reuse your work. [More information](#).

*Elsevier supports responsible sharing*

Find out how you can [share your research](#) published in Elsevier journals.

## Role of the funding source

You are requested to identify who provided financial support for the conduct of the research and/or preparation of the article and to briefly describe the role of the sponsor(s), if any, in study design; in the collection, analysis and interpretation of data; in the writing of the report; and in the decision to submit the article for publication. If the funding source(s) had no such involvement then this should be stated.

*Funding body agreements and policies*

Elsevier has established a number of agreements with funding bodies which allow authors to comply with their funder's open access policies. Some funding bodies will reimburse the author for the Open Access Publication Fee. Details of [existing agreements](#) are available online.

## Open access

This journal offers authors a choice in publishing their research:

### Subscription

- Articles are made available to subscribers as well as developing countries and patient groups through our [universal access programs](#).
- No open access publication fee payable by authors.

### Open access

- Articles are freely available to both subscribers and the wider public with permitted reuse.
- An open access publication fee is payable by authors or on their behalf, e.g. by their research funder or institution.

Regardless of how you choose to publish your article, the journal will apply the same peer review criteria and acceptance standards.

For open access articles, permitted third party (re)use is defined by the following [Creative Commons user licenses](#):

*Creative Commons Attribution (CC BY)*

Lets others distribute and copy the article, create extracts, abstracts, and other revised versions, adaptations or derivative works of or from an article (such as a translation), include in a collective work (such as an anthology), text or data mine the article, even for commercial purposes, as long as they credit the author(s), do not represent the author as endorsing their adaptation of the article, and do not modify the article in such a way as to damage the author's honor or reputation.

### *Creative Commons Attribution-NonCommercial-NoDerivs (CC BY-NC-ND)*

For non-commercial purposes, lets others distribute and copy the article, and to include in a collective work (such as an anthology), as long as they credit the author(s) and provided they do not alter or modify the article.

The open access publication fee for this journal is **USD 2300**, excluding taxes. Learn more about Elsevier's pricing policy: <https://www.elsevier.com/openaccesspricing>.

### *Green open access*

Authors can share their research in a variety of different ways and Elsevier has a number of green open access options available. We recommend authors see our [green open access page](#) for further information. Authors can also self-archive their manuscripts immediately and enable public access from their institution's repository after an embargo period. This is the version that has been accepted for publication and which typically includes author-incorporated changes suggested during submission, peer review and in editor-author communications. Embargo period: For subscription articles, an appropriate amount of time is needed for journals to deliver value to subscribing customers before an article becomes freely available to the public. This is the embargo period and it begins from the date the article is formally published online in its final and fully citable form. [Find out more](#).

This journal has an embargo period of 12 months.

### *Elsevier Publishing Campus*

The Elsevier Publishing Campus ([www.publishingcampus.com](http://www.publishingcampus.com)) is an online platform offering free lectures, interactive training and professional advice to support you in publishing your research. The College of Skills training offers modules on how to prepare, write and structure your article and explains how editors will look at your paper when it is submitted for publication. Use these resources, and more, to ensure that your submission will be the best that you can make it.

### *Language (usage and editing services)*

Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the [English Language Editing service](#) available from Elsevier's WebShop.

### **Submission**

Our online submission system guides you stepwise through the process of entering your article details and uploading your files. The system converts your article files to a single PDF file used in the peer-review process. Editable files (e.g., Word, LaTeX) are required to typeset your article for final publication. All correspondence, including notification of the Editor's decision and requests for revision, is sent by e-mail.

### *Submit your article*

Please submit your article via <http://ees.elsevier.com/cognit/>

We strive to return a decision on Full articles within three months on the advice of at least two reviewers, and on Brief articles within six to eight weeks. Delays can be incurred if reviewers are unable to return their reviews to us within the requested period, or if we need to find alternative reviewers.

### *Additional information*

The **format and style** of manuscripts should conform to the conventions specified in the *Publication Manual of the American Psychological Association* (1200 Seventeenth Street, NW, Washington, DC 20036 [Sixth Edition]). Please note that for **new submissions**, you should include Figures and Tables in the main text, close to the point at which they are referred to in the manuscript (corresponding to where you would expect to see the Figure or Table in the published version of the manuscript - this is a departure from the normal recommendation to place them at the end of the text) so as to facilitate reviewing. However, if your paper is accepted for publication, you should make sure that the finally submitted manuscript is in the following order: Title - Authors - Affiliation - Abstract - Keywords - Main text - Acknowledgement - Appendix - References - Figure legends - Tables.

### **The covering letter**

Articles for submission should be accompanied by a covering letter which summarizes, in no more than a short paragraph, the novel empirical and/or theoretical contribution of the paper. This paragraph should convey how the work constrains current theorizing over and above the current literature.

Cognition aims to publish material that is highly innovative with respect to advancing theory, and this summary may be used to inform the triage process. Authors should also ensure that readers can quickly establish the advance afforded by the paper when reading its introduction and/or discussion sections.

### **Triage**

Once a submitted manuscript has been allocated to an Editor, a decision will be taken either to send the paper out to review, or to reject the paper, perhaps with the recommendation to submit to a more specialist journal. This decision may normally take up to two weeks. Authors can check the status of their manuscript by logging on to EES; if the status of the manuscript is shown as "With Editor", the manuscript is either awaiting a triage decision or is awaiting assignment of reviewers. When the status changes to "Under Review", the manuscript is with reviewers. A substantial number of manuscripts are rejected without being sent to review, and only a small proportion of the manuscripts which are sent to review will eventually be accepted for publication in Cognition.

### **Statistical reporting**

Please refer to the Editorial Policy to ensure that you conform with the journal's policy on the reporting of size of effect and goodness-of-fit measures. [http://ees.elsevier.com/cognit/img/Editorial\\_Policy.pdf](http://ees.elsevier.com/cognit/img/Editorial_Policy.pdf)

## **PREPARATION**

### **NEW SUBMISSIONS**

Submission to this journal proceeds totally online and you will be guided stepwise through the creation and uploading of your files. The system automatically converts your files to a single PDF file, which is used in the peer-review process.

As part of the Your Paper Your Way service, you may choose to submit your manuscript as a single file to be used in the refereeing process. This can be a PDF file or a Word document, in any format or layout that can be used by referees to evaluate your manuscript. It should contain high enough quality figures for refereeing. If you prefer to do so, you may still provide all or some of the source files at the initial submission. Please note that individual figure files larger than 10 MB must be uploaded separately.

### *References*

There are no strict requirements on reference formatting at submission. References can be in any style or format as long as the style is consistent. Where applicable, author(s) name(s), journal title/book title, chapter title/article title, year of publication, volume number/book chapter and the pagination must be present. Use of DOI is highly encouraged. The reference style used by the journal will be applied to the accepted article by Elsevier at the proof stage. Note that missing data will be highlighted at proof stage for the author to correct.

### *Formatting requirements*

There are no strict formatting requirements but all manuscripts must contain the essential elements needed to convey your manuscript, for example Abstract, Keywords, Introduction, Materials and Methods, Results, Conclusions, Artwork and Tables with Captions.

If your article includes any Videos and/or other Supplementary material, this should be included in your initial submission for peer review purposes.

Divide the article into clearly defined sections.

### *Figures and tables embedded in text*

Please ensure the figures and the tables included in the single file are placed next to the relevant text in the manuscript, rather than at the bottom or the top of the file. The corresponding caption should be placed directly below the figure or table.

### **Peer review**

This journal operates a single blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. [More information on types of peer review.](#)

### **REVISED SUBMISSIONS**

We accept most word processing formats, but Word or WordPerfect is preferred.



### *Use of word processing software*

Regardless of the file format of the original submission, at revision you must provide us with an editable file of the entire article. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the [Guide to Publishing with Elsevier](#)). See also the section on Electronic artwork.

To avoid unnecessary errors you are strongly advised to use the 'spell-check' and 'grammar-check' functions of your word processor.

## **Article structure**

### *Subdivision - numbered sections*

Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

### *Introduction*

State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

### *Material and methods*

Provide sufficient details to allow the work to be reproduced by an independent researcher. Methods that are already published should be summarized, and indicated by a reference. If quoting directly from a previously published method, use quotation marks and also cite the source. Any modifications to existing methods should also be described.

### *Theory/calculation*

A Theory section should extend, not repeat, the background to the article already dealt with in the Introduction and lay the foundation for further work. In contrast, a Calculation section represents a practical development from a theoretical basis.

### *Results*

Results should be clear and concise.

### *Discussion*

This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

### *Conclusions*

The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

### *Appendices*

If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

## **Essential title page information**

- **Title.** Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.
- **Author names and affiliations.** Please clearly indicate the given name(s) and family name(s) of each author and check that all names are accurately spelled. You can add your name between parentheses in your own script behind the English transliteration. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.
- **Corresponding author.** Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. This responsibility includes answering any future queries about Methodology and Materials. **Ensure that the e-mail address is given and that contact details are kept up to date by the corresponding author.**

• **Present/permanent address.** If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.

### **Abstract**

A concise and factual abstract is required. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

#### *Graphical abstract*

Although a graphical abstract is optional, its use is encouraged as it draws more attention to the online article. The graphical abstract should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership. Graphical abstracts should be submitted as a separate file in the online submission system. Image size: Please provide an image with a minimum of 531 × 1328 pixels (h × w) or proportionally more. The image should be readable at a size of 5 × 13 cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. You can view [Example Graphical Abstracts](#) on our information site.

Authors can make use of Elsevier's [Illustration Services](#) to ensure the best presentation of their images and in accordance with all technical requirements.

#### *Highlights*

Highlights are a short collection of bullet points that convey the core findings of the article. Highlights are optional and should be submitted in a separate editable file in the online submission system. Please use 'Highlights' in the file name and include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point). You can view [example Highlights](#) on our information site.

### **Keywords**

Immediately after the abstract, provide a maximum of 6 keywords, using British spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.

#### *Abbreviations*

Define abbreviations that are not standard in this field in a footnote to be placed on the first page of the article. Such abbreviations that are unavoidable in the abstract must be defined at their first mention there, as well as in the footnote. Ensure consistency of abbreviations throughout the article.

#### *Acknowledgements*

Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

#### *Formatting of funding sources*

List funding sources in this standard way to facilitate compliance to funder's requirements:

Funding: This work was supported by the National Institutes of Health [grant numbers xxxx, yyyy]; the Bill & Melinda Gates Foundation, Seattle, WA [grant number zzzz]; and the United States Institutes of Peace [grant number aaaa].

It is not necessary to include detailed descriptions on the program or type of grants and awards. When funding is from a block grant or other resources available to a university, college, or other research institution, submit the name of the institute or organization that provided the funding.

If no funding has been provided for the research, please include the following sentence:

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

## Footnotes

Footnotes should be used sparingly. Number them consecutively throughout the article. Many word processors build footnotes into the text, and this feature may be used. Should this not be the case, indicate the position of footnotes in the text and present the footnotes themselves separately at the end of the article.

## Artwork

### Electronic artwork

#### General points

- Make sure you use uniform lettering and sizing of your original artwork.
- Preferred fonts: Arial (or Helvetica), Times New Roman (or Times), Symbol, Courier.
- Number the illustrations according to their sequence in the text.
- Use a logical naming convention for your artwork files.
- Indicate per figure if it is a single, 1.5 or 2-column fitting image.
- For Word submissions only, you may still provide figures and their captions, and tables within a single file at the revision stage.
- Please note that individual figure files larger than 10 MB must be provided in separate source files. A detailed [guide on electronic artwork](#) is available.

**You are urged to visit this site; some excerpts from the detailed information are given here.**

#### Formats

Regardless of the application used, when your electronic artwork is finalized, please 'save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):

EPS (or PDF): Vector drawings. Embed the font or save the text as 'graphics'.

TIFF (or JPG): Color or grayscale photographs (halftones): always use a minimum of 300 dpi.

TIFF (or JPG): Bitmapped line drawings: use a minimum of 1000 dpi.

TIFF (or JPG): Combinations bitmapped line/half-tone (color or grayscale): a minimum of 500 dpi is required.

#### Please do not:

- Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); the resolution is too low.
- Supply files that are too low in resolution.
- Submit graphics that are disproportionately large for the content.

#### Color artwork

Please make sure that artwork files are in an acceptable format (TIFF (or JPEG), EPS (or PDF), or MS Office files) and with the correct resolution. If, together with your accepted article, you submit usable color figures then Elsevier will ensure, at no additional charge, that these figures will appear in color online (e.g., ScienceDirect and other sites) regardless of whether or not these illustrations are reproduced in color in the printed version. **For color reproduction in print, you will receive information regarding the costs from Elsevier after receipt of your accepted article.** Please indicate your preference for color: in print or online only. [Further information on the preparation of electronic artwork.](#)

#### Figure captions

Ensure that each illustration has a caption. A caption should comprise a brief title (**not** on the figure itself) and a description of the illustration. Keep text in the illustrations themselves to a minimum but explain all symbols and abbreviations used.

## Tables

Please submit tables as editable text and not as images. Tables can be placed either next to the relevant text in the article, or on separate page(s) at the end. Number tables consecutively in accordance with their appearance in the text and place any table notes below the table body. Be sparing in the use of tables and ensure that the data presented in them do not duplicate results described elsewhere in the article. Please avoid using vertical rules and shading in table cells.

## References

### Citation in text

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the

journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication.

#### *Web references*

As a minimum, the full URL should be given and the date when the reference was last accessed. Any further information, if known (DOI, author names, dates, reference to a source publication, etc.), should also be given. Web references can be listed separately (e.g., after the reference list) under a different heading if desired, or can be included in the reference list.

#### *Data references*

This journal encourages you to cite underlying or relevant datasets in your manuscript by citing them in your text and including a data reference in your Reference List. Data references should include the following elements: author name(s), dataset title, data repository, version (where available), year, and global persistent identifier. Add [dataset] immediately before the reference so we can properly identify it as a data reference. The [dataset] identifier will not appear in your published article.

#### *References in a special issue*

Please ensure that the words 'this issue' are added to any references in the list (and any citations in the text) to other articles in the same Special Issue.

#### *Reference management software*

Most Elsevier journals have their reference template available in many of the most popular reference management software products. These include all products that support [Citation Style Language styles](#), such as [Mendeley](#) and [Zotero](#), as well as [EndNote](#). Using the word processor plug-ins from these products, authors only need to select the appropriate journal template when preparing their article, after which citations and bibliographies will be automatically formatted in the journal's style. If no template is yet available for this journal, please follow the format of the sample references and citations as shown in this Guide.

Users of Mendeley Desktop can easily install the reference style for this journal by clicking the following link:

<http://open.mendeley.com/use-citation-style/cognition>

When preparing your manuscript, you will then be able to select this style using the Mendeley plug-ins for Microsoft Word or LibreOffice.

#### *Reference formatting*

There are no strict requirements on reference formatting at submission. References can be in any style or format as long as the style is consistent. Where applicable, author(s) name(s), journal title/book title, chapter title/article title, year of publication, volume number/book chapter and the pagination must be present. Use of DOI is highly encouraged. The reference style used by the journal will be applied to the accepted article by Elsevier at the proof stage. Note that missing data will be highlighted at proof stage for the author to correct. If you do wish to format the references yourself they should be arranged according to the following examples:

#### *Reference style*

*Text:* Citations in the text should follow the referencing style used by the American Psychological Association. You are referred to the Publication Manual of the American Psychological Association, Sixth Edition, ISBN 978-1-4338-0561-5, copies of which may be [ordered online](#) or APA Order Dept., P.O.B. 2710, Hyattsville, MD 20784, USA or APA, 3 Henrietta Street, London, WC3E 8LU, UK.

*List:* references should be arranged first alphabetically and then further sorted chronologically if necessary. More than one reference from the same author(s) in the same year must be identified by the letters 'a', 'b', 'c', etc., placed after the year of publication.

#### *Examples:*

Reference to a journal publication:

Van der Geer, J., Hanraads, J. A. J., & Lupton, R. A. (2010). The art of writing a scientific article. *Journal of Scientific Communications*, 163, 51–59.

Reference to a book:

Strunk, W., Jr., & White, E. B. (2000). *The elements of style*. (4th ed.). New York: Longman, (Chapter 4).

Reference to a chapter in an edited book:

Mettam, G. R., & Adams, L. B. (2009). How to prepare an electronic version of your article. In B. S. Jones, & R. Z. Smith (Eds.), *Introduction to the electronic age* (pp. 281–304). New York: E-Publishing Inc.

Reference to a website:

Cancer Research UK. Cancer statistics reports for the UK. (2003). <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/> Accessed 13 March 2003.

Reference to a dataset:

[dataset] Oguro, M., Imahiro, S., Saito, S., Nakashizuka, T. (2015). *Mortality data for Japanese oak wilt disease and surrounding forest compositions*. Mendeley Data, v1. <https://doi.org/10.17632/xwj98nb39r.1>.

*Journal abbreviations source*

Journal names should be abbreviated according to the [List of Title Word Abbreviations](#).

## Video

Elsevier accepts video material and animation sequences to support and enhance your scientific research. Authors who have video or animation files that they wish to submit with their article are strongly encouraged to include links to these within the body of the article. This can be done in the same way as a figure or table by referring to the video or animation content and noting in the body text where it should be placed. All submitted files should be properly labeled so that they directly relate to the video file's content. . In order to ensure that your video or animation material is directly usable, please provide the file in one of our recommended file formats with a preferred maximum size of 150 MB per file, 1 GB in total. Video and animation files supplied will be published online in the electronic version of your article in Elsevier Web products, including [ScienceDirect](#). Please supply 'stills' with your files: you can choose any frame from the video or animation or make a separate image. These will be used instead of standard icons and will personalize the link to your video data. For more detailed instructions please visit our [video instruction pages](#). Note: since video and animation cannot be embedded in the print version of the journal, please provide text for both the electronic and the print version for the portions of the article that refer to this content.

## Supplementary material

Supplementary material such as applications, images and sound clips, can be published with your article to enhance it. Submitted supplementary items are published exactly as they are received (Excel or PowerPoint files will appear as such online). Please submit your material together with the article and supply a concise, descriptive caption for each supplementary file. If you wish to make changes to supplementary material during any stage of the process, please make sure to provide an updated file. Do not annotate any corrections on a previous version. Please switch off the 'Track Changes' option in Microsoft Office files as these will appear in the published version.

## Data Archiving Policy

\* *Cognition* aims to encourage meta-analysis and to facilitate understanding of the data underlying articles published in the journal. Authors of all published papers will therefore be asked to make their raw data publically available whenever possible.

"Data" refers to an electronic file containing non-identified responses that are potentially already coded. Normally, the data would represent an early stage of electronic processing, before individual responses have been aggregated. The data must be in a form that allows all reported statistical analyses to be reproduced while retaining the confidentiality of individual participants. This entails that the data are formatted and documented in a way that makes the structure of the data set readily apparent.

All empirical papers must archive their data upon acceptance in order to be published unless the authors provide a compelling reason why they cannot (e.g., expense, confidentiality). The action editor will be the final arbiter of whether the reason is sufficiently compelling.

Data can be made publically available in different ways. Authors can submit their data as supplementary material (through our online submission system, selecting the submission item as '**Raw data**') together with their manuscript. Alternatively, there are multiple public repositories that are committed to providing public access into perpetuity: examples are the Open Science Framework, Dataverse, re3data.org and the Databibadd list. Personal websites and most departmental websites do not qualify as repositories because they are potentially transient.

If data are archived in a public repository, a link to the data must be provided under the section heading "Supplementary material" in the manuscript. Note that any publication that reports analyses of or refers to archived data will be expected to cite the original publication in which the data were reported.

For supplementary data submitted together with the final draft of an accepted manuscript, please note: Supplementary files supplied will be published online alongside the electronic version of your article in Elsevier Web products, including ScienceDirect: <http://www.sciencedirect.com>. In order

to ensure that your submitted material is directly usable, please provide the data in one of our recommended file formats. Authors should submit the material in electronic format together with the article and supply a concise and descriptive caption for each file. For more detailed instructions please visit our artwork instruction pages at <http://www.elsevier.com/artworkinstructions>.

#### *Data in Brief*

You have the option of converting any or all parts of your supplementary or additional raw data into one or multiple data articles, a new kind of article that houses and describes your data. Data articles ensure that your data is actively reviewed, curated, formatted, indexed, given a DOI and publicly available to all upon publication. You are encouraged to submit your article for *Data in Brief* as an additional item directly alongside the revised version of your manuscript. If your research article is accepted, your data article will automatically be transferred over to *Data in Brief* where it will be editorially reviewed and published in the open access data journal, *Data in Brief*. Please note an open access fee of 500 USD is payable for publication in *Data in Brief*. Full details can be found on the [Data in Brief website](#). Please use [this template](#) to write your Data in Brief.

#### **AudioSlides**

The journal encourages authors to create an AudioSlides presentation with their published article. AudioSlides are brief, webinar-style presentations that are shown next to the online article on ScienceDirect. This gives authors the opportunity to summarize their research in their own words and to help readers understand what the paper is about. [More information and examples are available](#). Authors of this journal will automatically receive an invitation e-mail to create an AudioSlides presentation after acceptance of their paper.

#### **Interactive plots**

This journal enables you to show an Interactive Plot with your article by simply submitting a data file. [Full instructions](#).

### **AFTER ACCEPTANCE**

#### **Cognition author support fund**

*Cognition* is a 'hybrid' journal publishing 'traditional' subscription articles (with no charge for authors) as well as Open Access articles, which require an Article Publication Charge (APC). Authors can choose either when publishing their articles. See here for more information on how *Cognition* supports open access: <https://www.elsevier.com/journals/cognition/0010-0277/open-access-options>. *Cognition* is a high quality, selective journal, with an APC that reflects this.

The journal appreciates that some authors would like to publish Gold Open Access but may not have enough funding to pay the APC. *Cognition* is launching an experiment to provide an author support fund, and while the details may change, the fund will start with an initial two-year commitment. Authors whose articles are accepted after 1<sup>st</sup> May 2016 can apply by requesting a form from the editorial office: [cognition@elsevier.com](mailto:cognition@elsevier.com).

Decisions to grant discounts are at the discretion of the Editor-in-Chief, in consultation with the Publisher.

Accepted authors always have the choice to publish their article as a subscription article at no cost (even after requesting an APC fee reduction), and can self-archive their article to follow the [Green Open Access route](#). *Cognition* has an embargo period of 12 months.

APC discounts must be requested within one week of acceptance, and will have no impact on the decision made by an editor whether or not to accept the associated paper.

Authors from countries eligible for the Research4Life program (see <http://www.research4life.org/eligibility>) may request an APC under Elsevier's normal fee waiver program outlined in its pricing policy.

#### **Online proof correction**

Corresponding authors will receive an e-mail with a link to our online proofing system, allowing annotation and correction of proofs online. The environment is similar to MS Word: in addition to editing text, you can also comment on figures/tables and answer questions from the Copy Editor. Web-based proofing provides a faster and less error-prone process by allowing you to directly type your corrections, eliminating the potential introduction of errors.

If preferred, you can still choose to annotate and upload your edits on the PDF version. All instructions for proofing will be given in the e-mail we send to authors, including alternative methods to the online version and PDF.

We will do everything possible to get your article published quickly and accurately. Please use this proof only for checking the typesetting, editing, completeness and correctness of the text, tables and figures. Significant changes to the article as accepted for publication will only be considered at this stage with permission from the Editor. It is important to ensure that all corrections are sent back to us in one communication. Please check carefully before replying, as inclusion of any subsequent corrections cannot be guaranteed. Proofreading is solely your responsibility.

### **Offprints**

The corresponding author will, at no cost, receive a customized [Share Link](#) providing 50 days free access to the final published version of the article on [ScienceDirect](#). The Share Link can be used for sharing the article via any communication channel, including email and social media. For an extra charge, paper offprints can be ordered via the offprint order form which is sent once the article is accepted for publication. Both corresponding and co-authors may order offprints at any time via Elsevier's [Webshop](#). Corresponding authors who have published their article open access do not receive a Share Link as their final published version of the article is available open access on ScienceDirect and can be shared through the article DOI link.

### *Special issues*

*Cognition* occasionally publishes special issues devoted to a research area that has seen rapid recent progress, promising new approaches, and convergence among different disciplines. Each special issue is coordinated by a Guest Editor, who writes an introduction that describes the central questions in that area of research and allows readers in diverse fields, particularly graduate students, to understand the significance of the individual articles in the issue. Proposals for special issues may be submitted by individuals who are willing to serve as Guest Editor. The proposal should explain the topic and the rationale for dedicating a special issue to it at that moment, and a detailed list of likely authors and papers. The articles themselves should summarize the state of the art in a field, explore alternative theories, and present new data, theories, or critical and synthetic literature reviews. The special issue should represent diverse viewpoints while remaining focused on a cohesive topic. The issue should contain no more than five or six articles and be no more than 150 journal pages long. All proposals will be refereed. If a proposal is accepted, the Guest Editor can begin to solicit the papers in collaboration with the Editor-in-Chief. All papers must adhere to the standards of the journal and meet with the approval of three referees selected by the journal. The decision to accept or reject a submission to a special issue will be made by the Editor-in-Chief.

## **AUTHOR INQUIRIES**

Visit the [Elsevier Support Center](#) to find the answers you need. Here you will find everything from Frequently Asked Questions to ways to get in touch.

You can also [check the status of your submitted article](#) or find out [when your accepted article will be published](#).

© Copyright 2018 Elsevier | <https://www.elsevier.com>