DESCRIPTION

The aims and scope of *Current Opinion in Toxicology* is to systematically provide the reader with timely and provocative views and opinions of the highest qualified and recognized experts on current advances in selected topics within the field of toxicology. The goal is that *Current Opinion in Toxicology* will be an invaluable source of information and perspective for researchers, teachers, managers and administrators, policy makers and students.

**Division of the subject into sections:**

For this purpose, the scope of Toxicology is divided into six selected high impact themed sections, each of which is reviewed once a year:

Mechanistic Toxicology Metabolic Toxicology Risk assessment in Toxicology Genomic Toxicology Systems Toxicology Translational Toxicology

EDITORIAL BOARD

*Editors-in-Chief*

José E. Manautou, Department of Pharmaceutical Sciences, School of Pharmacy, University of Connecticut, Storrs, CT, USA

Martin van den Berg, Inst. for Risk Assessment Sciences (IRAS), Universiteit Utrecht, Utrecht, Netherlands

*Editorial Board Members*

Herman Autrup, Inst. of Environmental & Occupational Medicine, Aarhus University, Århus C, Denmark

Stelvio Bandiera, Faculty of Pharmaceutical Sciences, University of Guelph, Vancouver, British Columbia, Canada

Silvia Berlanga de Moraes Barros, School of Pharmaceutical Sciences, Universidade de São Paulo (USP), São Paulo, Brazil

Colin Berry, Dept. of Pathology, Queen Mary, University of London (QMUL), London, UK

Linda Birnbaum, National Institute of Environmental Health Sciences (NIEHS), North Carolina, USA

Matthew Bogdanffy, Boehringer Ingelheim Pharmaceuticals Inc., Ridgefield, Connecticut, USA

Alan R. Boobis, Experimental Medicine and Toxicology, Imperial College London, London, UK

James S. Bus, Toxicology & mechanistic Biology, Exponent, Midland, Michigan, USA

Samuel M. Cohen, Dept. of Pathology and Microbiology, University of Nebraska Medical Center (UNMC), Omaha, Nebraska, USA

Christopher Corton, Div. of Integrated Systems Toxicology, U.S. Environmental Protection Agency (EPA), Research Triangle Park, North Carolina, USA

George Daston, Miami Valley Labs., Procter & Gamble Service GmbH, Cincinnati, Ohio, USA
Michael S. Denison, Dept. of Environmental Toxicology, University of California, Davis, Davis, California, USA
Ayse Basak Engin, Fac. of Pharmacy, Gazi University, Ankara, Turkey
Per Eriksson, Dept. of Environmental Toxicology - Ekotoxikologi, Uppsala Universitet, Uppsala, Sweden
William Farland, Dept. of Environmental & Radiological Health Sciences, Colorado State University, Fort Collins, Colorado, USA
Paul Foster, Natl. Toxicology Program, National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, North Carolina, USA
Corrado Galli, Department of Pharmacochemical and Biomolecular Sciences (DiSFeB), Università degli Studi di Milano, Milan, Italy
Michele Gallo, Environmental & Occupational Medicine Division, Rutgers - Robert Wood Johnson Medical School, Piscataway, New Jersey, USA
Alan Goldberg, Bloomberg School of Public Health, John Hopkins University, Baltimore, Maryland, USA
Ernie Harpur, Inst. of Cell and Molecular Biosciences, Newcastle University, Newcastle upon Tyne, England, UK
Ronald Hines, National Health & Environmental Effect Research Laboratory, U.S. Environmental Protection Agency (EPA), Durham, North Carolina, USA
Andreas Kortenkamp, Centre for Toxicology, The School of Pharmacy, University of London, London, England, UK
Lois Lehman-McKeeman, Bristol-Myers Squibb Company, Princeton, New Jersey, USA
Peter Moldeus, Inst. of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden
Angelo Moretto, Dept. of Biomedical and Clinical Sciences, Università degli Studi di Milano, Milano, Italy
Marc Pallardy, Faculty of Pharmaceutical Sciences, Université Paris Sud, Châtenay-Malabry, Paris, France
Richard Paules, Natl. Toxicology Program Laboratory, National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, North Carolina, USA
Richard E. Peterson, Sch. of Pharmacy, University of Wisconsin at Madison, Madison, Wisconsin, USA
Martin A. Philbert, Dept. of Environmental Health Sciences, University of Michigan, Ann Arbor, Michigan, USA
Alvaro Puga, Ctr. for Environmental Genetics, University of Cincinnati, Cincinnati, Ohio, USA
Kenneth Ramos, Center for Applied Genetics and Genomic Medicine, University of Arizona Health Sciences Center, Tucson, Arizona, USA
Ivonne M.C.M. Rietjens, Sectie Toxicologie, Wageningen Universiteit, Wageningen, Netherlands
Leonard Ritler, School of Environmental Sciences, University of Guelph, Ontario, Ontario, Canada
Ruth Roberts, Apconix, Alderly Edge, England, UK
Mathuros Ruchirawat, Chulabhorn Research Institute, Bangok, Thailand
Frans Russel, Dept. of Pharmacology and Toxicology, Radboudumc, Nijmegen, Netherlands
Stephen Safe, Dept. of Veterinary Physiology & Pharmacology, Texas A&M University, College Station, Texas, USA
William Slikker, Jr., National Center for Toxicological Research, Food and Drug Administration (FDA), Jefferson, Arkansas, USA
Lewis Smith, College of Medicine, Biological Sciences and Psychology, University of Leicester, Leicester, UK
Aristides Tsatsakis, Dept. of Forensic Sciences and Toxicology, University of Crete, Heraklion, Greece
Anne Marie Vinggaard, Division of Toxicology and Risk Assessment, National Food Institute, Technical University of Denmark, Seborg, Denmark

Founding Co-Editor-in-Chief
Kendall B. Wallace, Department of Biomedical Sciences, University of Minnesota Medical School, Duluth, Minnesota, USA

AUTHOR INFORMATION PACK 16 Oct 2019 www.elsevier.com/locate/cotox
GUIDE FOR AUTHORS

INTRODUCTION

The Current Opinion journals were developed out of the recognition that it is increasingly difficult for specialists to keep up to date with the expanding volume of information published in their subject. In the Current Opinion journals, we help the reader by providing in a systematic manner: (1) The views of experts on current advances in the field in a clear and readable form. (2) Evaluations of the most interesting papers, annotated by experts, from the great wealth of original publications.

The aim of the manuscript is to review recent articles, with particular emphasis on those articles published in the past two years. In addition to describing recent trends, you are encouraged to give your subjective opinion of the topics discussed, although you should not concentrate unduly on your own research. Your review should be approximately 2000 words (not including references or reference notes), with approximately 50 references and, as such, the review is intended to be a concise view of the field as it is at the moment, rather than a comprehensive overview. Our audience ranges from student to professor, so articles must be accessible to a wide readership. Please avoid jargon, but do not oversimplify: be accurate and precise throughout. Occasionally, unpublished data can be referred to, but only when essential and should never be used to substantiate any significant point.

Submission to this journal is by invitation only. Please contact your Editorial Manager by email if you have any questions.

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

Final decision on each article is done by the Guest Editor of each specific issue.

For further information, visit our Support Center.

Before you begin
Editable source files must be uploaded for all submissions and these will typically have the extension .docx, .doc, or .tex. A PDF is not an acceptable source file. Figures and tables may be embedded within the manuscript file or uploaded separately in an approved format (TIFF, EPS or MS
Office files). If embedded, tables and equations should be editable and not embedded as images. Any figure that cannot be embedded within the source file (such as *.PSD Photoshop files) needs to be uploaded separately.

**Ethics in publishing**

Please see our information pages on Ethics in publishing and Ethical guidelines for journal publication.

**Studies in humans and animals**

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. The manuscript should be in line with the Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals and aim for the inclusion of representative human populations (sex, age and ethnicity) as per those recommendations. The terms sex and gender should be used correctly.

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. The sex of animals must be indicated, and where appropriate, the influence (or association) of sex on the results of the study.

**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 should complete the declaration of interest statement using this template and upload to the submission system at the Attach/Upload Files step.

If there are no interests to declare, please choose: 'Declarations of interest: none' in the template. This statement will be published within the article if accepted. 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, a published lecture or academic thesis, see 'Multiple, redundant or concurrent publication' 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.

**Preprints**

Please note that preprints can be shared anywhere at any time, in line with Elsevier's sharing policy. Sharing your preprints e.g. on a preprint server will not count as prior publication (see 'Multiple, redundant or concurrent publication' for more information).

**Use of inclusive language**

Inclusive language acknowledges diversity, conveys respect to all people, is sensitive to differences, and promotes equal opportunities. Articles should make no assumptions about the beliefs or commitments of any reader, should contain nothing which might imply that one individual is superior to another on the grounds of race, sex, culture or any other characteristic, and should use inclusive language throughout. Authors should ensure that writing is free from bias, for instance by using 'he or she', 'his/her' instead of 'he' or 'his', and by making use of job titles that are free of stereotyping (e.g. 'chairperson' instead of 'chairman' and 'flight attendant' instead of 'stewardess').

**Authors**

Please provide the names of all authors in full, including first name. No more than five authors should be listed (only those who contributed to the actual writing of the manuscript, rather than members of the laboratory contributing to primary work). Anyone else who contributed to the article can be thanked in the acknowledgements section.
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 gold 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 gold 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 gold 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.
- The Author is entitled to post the accepted manuscript in their institution's repository and make this public after an embargo period (known as green Open Access). The published journal article cannot be shared publicly, for example on ResearchGate or Academia.edu, to ensure the sustainability of peer-reviewed research in journal publications. The embargo period for this journal can be found below.

Gold open access
• Articles are freely available to both subscribers and the wider public with permitted reuse.
• A gold 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 gold open access articles, permitted third party (re)use is defined by the following Creative Commons user licenses:

The gold open access publication fee for this journal is USD 3900, excluding taxes. Learn more about Elsevier's pricing policy: https://www.elsevier.com/openaccesspricing.

**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.

**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 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 Researcher Academy**
Researcher Academy is a free e-learning platform designed to support early and mid-career researchers throughout their research journey. The "Learn" environment at Researcher Academy offers several interactive modules, webinars, downloadable guides and resources to guide you through the process of writing for research and going through peer review. Feel free to use these free resources to improve your submission and navigate the publication process with ease.

**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 Author Services.

**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.

**PREPARATION**

**Peer review**
This journal operates a single blind review process. All contributions are typically sent to a minimum of one independent expert reviewer 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.
Use of word processing software
It is important that the file be saved in the native format of the word processor used. The text should be in single-column format. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. In particular, do not use the word processor's options to justify text or to hyphenate words. However, do use bold face, italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. 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
The introduction should be accessible to a wide variety of scientists by avoiding the use of jargon and concepts not familiar to non-specialists. It should outline the time period covered and the scope of the review, including the importance of and rationale behind your article. The introduction should include only a few background references.

Main text of review
Use concise, logical subheadings to provide clear links between the different sections and guide the reader through your review. Please write all abbreviations in full on first use, and use the abbreviation thereafter.

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 conclusions section should summarize the topics discussed and describe future directions, including the author's opinions, as appropriate.

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.

**Highlights**

Highlights are optional yet highly encouraged for this journal, as they increase the discoverability of your article via search engines. They consist of a short collection of bullet points that capture the novel results of your research as well as new methods that were used during the study (if any). Please have a look at the examples here: example Highlights.

Highlights 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).

**Abstract**

All reviews should be prefaced by an abstract of 100-120 words. The abstract is important: it should contain sufficient information for the reader to be able to appreciate the relevance of the full article when read alone. It should include background information and specific examples of recent advances, rather than promises that a particular subject 'will be discussed' - the scope of the review should instead appear at the end of the introduction. 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.

**Keywords**

Immediately after the abstract, provide a maximum of 6 keywords, using American 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, yyyyy]; the Bill & Melinda Gates Foundation, Seattle, WA [grant number zzzzz]; and the United States Institutes of Peace [grant number aaaaa].
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.

Math formulae
Please submit math equations as editable text and not as images. Present simple formulae in line with normal text where possible and use the solidus (/) instead of a horizontal line for small fractional terms, e.g., X/Y. In principle, variables are to be presented in italics. Powers of e are often more conveniently denoted by exp. Number consecutively any equations that have to be displayed separately from the text (if referred to explicitly in the text).

Footnotes
Footnotes should be used sparingly. Number them consecutively throughout the article. Many word processors can build footnotes into the text, and this feature may be used. Otherwise, please indicate the position of footnotes in the text and list the footnotes themselves separately at the end of the article. Do not include footnotes in the Reference list.

Artwork
Figures
You are encouraged to include up to four additional elements in your review (i.e. a combination of Figures, Tables and Boxes). You should include at least one figure to summarize the main concepts discussed, and all figures should help to explain the concepts discussed in the text. All illustrations should be labelled as figures, and figures should be cited in the main text of the review in numerical order. Please note that it is the responsibility of the authors to obtain permission to reproduce copyrighted material (figures that have been published before) from the original authors and publishers.

Electronic artwork
General points
- Make sure you use uniform lettering and sizing of your original artwork.
- Embed the used fonts if the application provides that option.
- Aim to use the following fonts in your illustrations: Arial, Courier, Times New Roman, Symbol, or use fonts that look similar.
- Number the illustrations according to their sequence in the text.
- Use a logical naming convention for your artwork files.
- Provide captions to illustrations separately.
- Size the illustrations close to the desired dimensions of the published version.
- Submit each illustration as a separate file.

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
If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel) then please supply 'as is' in the native document format.
Regardless of the application used other than Microsoft Office, 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 all used fonts.
TIFF (or JPEG): Color or grayscale photographs (halftones), keep to a minimum of 300 dpi.
TIFF (or JPEG): Bitmapped (pure black & white pixels) line drawings, keep to a minimum of 1000 dpi.
TIFF (or JPEG): Combinations bitmapped line/half-tone (color or grayscale), keep to a minimum of 500 dpi.

Please do not:
- Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); these typically have a low number of pixels and limited set of colors;
- 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) in addition to color reproduction in print. Further information on the preparation of electronic artwork.

Illustration services
Elsevier’s Author Services offers Illustration Services to authors preparing to submit a manuscript but concerned about the quality of the images accompanying their article. Elsevier's expert illustrators can produce scientific, technical and medical-style images, as well as a full range of charts, tables and graphs. Image 'polishing' is also available, where our illustrators take your image(s) and improve them to a professional standard. Please visit the website to find out more.

Figure captions
Ensure that each illustration has a caption. Supply captions separately, not attached to the figure. 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.

Reference links
Increased discoverability of research and high quality peer review are ensured by online links to the sources cited. In order to allow us to create links to abstracting and indexing services, such as Scopus, CrossRef and PubMed, please ensure that data provided in the references are correct. Please note that incorrect surnames, journal/book titles, publication year and pagination may prevent link creation. When copying references, please be careful as they may already contain errors. Use of the DOI is highly encouraged.

A DOI is guaranteed never to change, so you can use it as a permanent link to any electronic article. An example of a citation using DOI for an article not yet in an issue is: VanDecar J.C., Russo R.M., James D.E., Ambeh W.B., Franke M. (2003). Aseismic continuation of the Lesser Antilles slab beneath northeastern Venezuela. Journal of Geophysical Research, https://doi.org/10.1029/2001JB000884. Please note the format of such citations should be in the same style as all other references in the paper.

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 style
Text: Indicate references by number(s) in square brackets in line with the text. The actual authors can be referred to, but the reference number(s) must always be given.
Example: '..... as demonstrated [3,6]. Barnaby and Jones [8] obtained a different result ....'
List: Number the references (numbers in square brackets) in the list in the order in which they appear in the text.
Examples:
Reference to a journal publication:
Reference to a book:
Reference to a chapter in an edited book:
Reference to a website:
Reference to a dataset:

Annotations
The majority of the references (please aim to cite approximately 50) should come from the period under review (i.e. the past two years) and, in general, at least 10% of these should be selected and annotated as being papers of special interest (*) or outstanding interest (**). Annotated references MUST be from the past two years, and the annotation should provide a brief description of the major findings and the importance of the study. This is an essential part of each review and is very popular with our readers.

For example:

Using class I tetramers, the authors demonstrate that insulin-specific CD8+ T cells account for a large proportion of infiltrated T cells in the islets of prediabetic NOD mice. This is the first study to use peptide multimers to decipher the mechanism of autoimmunity.

Exclude from reference list
Unpublished data or articles (including papers on preprint servers, papers in preparation, papers submitted for publication, and personal communications), conference abstracts, PhD theses, websites/URLs and computer programs/databases should not be mentioned in the reference list. If you feel that the citation is crucial to the review, please mention it in the text only (see below). Please keep in mind that citations should be restricted to sources freely available to most readers (if a submitted paper is accepted for publication before we go to press, then this information can be added in an 'Update' section). These references should be presented in the text as follows (please list the first author only, including initials and surname): Personal communications: (SW Churchill et al., personal communication [or unpublished if referring to the authors' own work]). Note that personal communications must be authorised by those involved. You are responsible for obtaining permission to use personal communications. Submitted papers/unpublished data: (IMN Author et al., unpublished) or (IMN Author et al., bioRxiv doi: 10.1101/123456) Abstracts (give full information but not title): (A Early et al., abstract 54, 3rd International Meeting of Cellular Immunology, Washington DC, September 1998) or (A Early, abstract in Soc Neurosci Abstr 1998, 4:154). PhD theses: (R Arthur Goode, PhD thesis, University of Hawaii, 1988) Websites: (Biological Biochemical Image Database; URL: http://bbid.grc.nia.nih.gov/) Computer program/database:
(Actin database, University of Harvard) (Unless the program/database details have been published, in which case cite as a normal reference. For example, Nicholls A, Bharadwaj R, Honig B: GRASP: a graphical representation and analysis of surface properties. Biophys J 1993, 64:166-170.)

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.

AFTER ACCEPTANCE
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, at no cost, will be provided with a PDF file of the article via e-mail (the PDF file is a watermarked version of the published article and includes a cover sheet with the journal cover image and a disclaimer outlining the terms and conditions of use). 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 Author Services.

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.