



### TABLE OF CONTENTS

---

- **Description** p.1
- **Impact Factor** p.1
- **Abstracting and Indexing** p.2
- **Editorial Board** p.2
- **Guide for Authors** p.3



ISSN: 0325-7541

### DESCRIPTION

---

*Revista Argentina de Microbiología* is published by the Asociación Argentina de Microbiología (AAM) on a quarterly basis. The aim of this journal is to publish current scientific works in the different areas of Microbiology and Parasitology. Some of the topics considered of special interest are: infections caused by bacteria, fungi, parasites and viruses; mechanisms of pathogenicity, and virulence factors; resistance to antimicrobial agents; taxonomy; epidemiology and phenotypic, immunologic and molecular diagnostic methods. RAM also publishes articles on microbial ecology and diversity, zoo- and phytopathogens and microorganisms of value for food, agronomic, industrial and environmental applications. With the purpose of covering basic aspects of research in the area, the journal is also interested in the publication of manuscripts on microorganism genomics, proteomics and enzymology, as well as in those articles dealing with regional impact.

La *Revista Argentina de Microbiología* es una publicación trimestral editada por la Asociación Argentina de Microbiología y destinada a la difusión de trabajos científicos en las distintas áreas de la Microbiología y la Parasitología. Los temas de interés especial incluyen las infecciones causadas por bacterias, hongos, parásitos, virus y agentes infecciosos no convencionales, mecanismos de patogenicidad, factores de virulencia y respuesta inmune asociada a los agentes infecciosos, resistencia a los agentes antimicrobianos, taxonomía, epidemiología y métodos diagnósticos fenotípicos, inmunológicos y moleculares, entre otros. La RAM también publica artículos sobre ecología microbiana y diversidad, zoo y fitopatógenos y sobre microorganismos de interés alimentario, agrícola, industrial y ambiental. Con la finalidad de incluir los aspectos básicos de la investigación en el área, la Revista también considera para su publicación trabajos sobre genómica, proteómica y enzimología de microorganismos y parásitos. Asimismo, es de interés para la RAM la publicación de artículos de impacto regional.

### IMPACT FACTOR

---

2019: 1.221 © Clarivate Analytics Journal Citation Reports 2020

## ABSTRACTING AND INDEXING

---

PubMed/Medline  
Scopus  
ScienceDirect  
Science Citation Index Expanded  
Directory of Open Access Journals (DOAJ)  
Embase  
MEDES - Medicina en Español

## EDITORIAL BOARD

---

### *Editor-in-Chief*

**Cecilia Quiroga**, Instituto de Investigaciones en Microbiología y Parasitología Médica. Universidad de Buenos Aires. Consejo Nacional de Investigaciones Científicas y Técnicas., Buenos Aires, Argentina

### *Managing Editor*

**Marcela Carina Audisio**, Instituto de Investigaciones para la Industria Química (INIQUI-CONICET). Universidad Nacional de Salta, Salta, Argentina

### *Associate Editors*

**Catalina D. Alba**, Instituto de Investigaciones en Microbiología y Parasitología Médica, Buenos Aires, Argentina

**Adriana B. Bentancor**, University of Buenos Aires Faculty of Veterinary Sciences, Buenos Aires, Argentina

**Laura Bonofiglio**, Universidad de Buenos Aires Facultad de Farmacia y Bioquímica, Buenos Aires, Argentina

**Luis F. Calvinho**, Instituto Nacional de Tecnología Agropecuaria (INTA), Madrid, Spain

**Sofía Noemí Chulze**, Consejo Nacional de Investigaciones Científicas y Técnicas, Buenos Aires, Argentina

**Silvio L. Cravero**, Instituto de Agrobiotecnología y Biología Molecular (IABIMO), INTA/CONICET, CICVyA-INTA, Moron, Argentina

**María Luján Cuestas**, Universidad de Buenos Aires, Consejo Nacional de Investigaciones Científicas y Técnicas, Instituto de Investigaciones en Microbiología y Parasitología Médica (IMPAM), Facultad de Medicina, Buenos Aires, Argentina

**José A. Di Conza**, Facultad de Farmacia y Bioquímica. Universidad de Buenos Aires Consejo Nacional de Investigaciones Científicas y Técnicas. Ciudad Autónoma de Buenos Aires, Argentina. Facultad de Bioquímica y Ciencias Biológicas. Universidad Nacional del Litoral, Buenos Aires, Argentina

**Norma Fernández**, Universidad de Buenos Aires Facultad de Farmacia y Bioquímica, Buenos Aires, Argentina

**Inés E. García de Salamone**, Universidad de Buenos Aires Facultad de Agronomía, Buenos Aires, Argentina

**Gerardo Leotta**, Instituto de Genética Veterinaria Ingeniero Fernando Noel Dulout, La Plata, Argentina

**Aníbal Roberto Lodeiro**, Institute of Biotechnology and Molecular Biology, La Plata, Argentina

**María Laura Minassian**, National Administration of Laboratories and Health Institutes, Buenos Aires, Argentina

**Marcela Nastro**, Hospital de Clínicas José de San Martín, Buenos Aires, Argentina

**María Gabriela Paraje**, Universidad Nacional de Córdoba Facultad de Ciencias Exactas Físicas y Naturales, Córdoba, Argentina

**Diego H. Sauka**, Universidad de Buenos Aires Facultad de Farmacia y Bioquímica, Buenos Aires, Argentina

**María Celina Zabaloy**, Centro de Recursos Naturales Renovables de la Zona Semiárida (CERZOS), Buenos Aires, Argentina

## GUIDE FOR AUTHORS

---

### Spanish guide for authors

Consulte las instrucciones para los autores en español: <http://www.elsevier.es/es-revista-argentina-microbiologia-372-normas-publicacion>

### INTRODUCTION

*Revista Argentina de Microbiología* (RAM, <https://ees.elsevier.com/ram/>) is published by the *Asociación Argentina de Microbiología* (AAM) on a quarterly basis. The aim of this journal is to publish current scientific works in the different areas of Microbiology and Parasitology. Some of the topics considered of special interest are: infections caused by bacteria, fungi, parasites, viruses and unconventional infectious agents; mechanisms of pathogenicity, and virulence factors; resistance to antimicrobial agents; taxonomy; epidemiology and phenotypic, immunologic and molecular diagnostic methods. RAM also publishes articles on microbial ecology and diversity, zoo- and phytopathogens and microorganisms of value for food, agronomic, industrial and environmental applications. Manuscripts on microorganism genomics, proteomics and enzymology, as well as articles of regional impact are eligible for consideration with the purpose of covering basic aspects of research in the area.

RAM can publish the articles under the following sections: General microbiology Clinical microbiology and infectious diseases Antimicrobial agents Food microbiology Agricultural, environmental and industrial microbiology The different types of articles that can be published in RAM are: a) editorials, b) original articles, c) brief reports, d) microbiological images, e) letters to the editor and f) special articles, on the different areas of Microbiology. The Editorial Board reserves the right to reject those manuscripts whose contents partially or totally overlap with works already published or whose topics are irrelevant to those of RAM. Furthermore, reasons for rejection are non-compliance of editorial requirements, ethical violations, low scientific quality and poor use of language, either English or Spanish. The Editorial Board reserves the right to make all necessary grammatical and style modifications.

### Types of article

**Editorials.** They focus on current scientific topics of special relevance to the scientific community specialized in Microbiology, or are opinion works on scientific policies. This section is the sole domain of the Editorial Board, who will determine editorial policy and authorship, as well as the general guidelines.

Editorials shall not exceed 1.200 words and references should be limited to 5.

**Original articles.** They are full research paper, which must be submitted in accordance to the following sections: Title (in Spanish and English) and Short Title, Abstract and Keywords (in Spanish and English), Introduction, Materials and Methods, Results, Discussion, Acknowledgements and References. Manuscripts shall not exceed 8,000 words including all the sections and shall include a maximum of 6 tables or figures. In order to support and improve the presentation of the research article, RAM accepts additional electronic data which will be published in the RAM website as Supplementary data.

**Brief reports.** They are less extensive works. They include case reports, descriptions of new techniques or equipment based on conclusive experimental work. Manuscripts should not be divided into sections and shall not exceed 3,000 words. References should be limited to 15 citations and a maximum of 3 tables and figures. Careful analysis of data presented should be observed so as to avoid their repetition in the text, tables and figures, in order to maintain the typical concision in style that characterizes this type of articles.

**Microbiological images.** They may include high quality pictures of bacteria, fungi, parasites and viruses, from direct observation or staining under optical, electronic or fluorescent microscopy. They may also include other photographic images of microorganisms in culture media, lesions in humans or laboratory animals, x-ray and ultrasound images, computed tomography scans, nuclear magnetic resonance, etc. These images having great instructional value though not necessarily ground-breaking, should be accompanied by an explanatory text and indicating arrows when necessary. The text should not exceed 300 words. Quality requirements for images are described under the "Figures" section below.

**Letters to the Editor.** Letters can include either comments or new data. The comments consist in observations made on articles published in the journal; the latter are aimed at communicating short pieces of work, which do not have the appropriate length to be published as original article or brief report. Both contributions must not exceed 500 words, they should include the title in Spanish and English, they must not have an abstract, and may contain only one figure or table. The authors' names and affiliations should be placed at the bottom of the letter. Only the primary affiliation of each author should be indicated. The comments should mention the volume and issue number where the article was published, as well as the complete title and the first author's last name. Furthermore, the bibliographical references (up to 5 citations) that support the letter contents should be mentioned. In order to publish a comment, the corresponding author of the published article will be first consulted about the final decision and publication will remain at the editor's discretion. Contributions of new facts will be submitted to a specialist editor with knowledge in the subject matter, who, along with external reviewers, will assess the information. It should be noted that some journal indexing services do not include Letters to the Editor in their databases.

**Special articles.** They are up dates or workshop results on topics of regional and international weight. Their authors must be specialists in their field of study. Texts must include updated and comprehensive bibliography. Updates may include up to 10,000 words, 8 tables or figures. References should be limited to 100 bibliographic citations.

**Supplements.** They will consist of detailed reviews of a specific subject conducted by one or several scientific organizations or universities, as well as abstracts of contributions presented at scientific meetings or universities organized by the *Asociación Argentina de Microbiología* or any of its divisions or branches (oral communications, boards, lectures, round tables, etc.), and chaired by guest editors. Topics to be considered in the supplements and general outlines should be approved by the Editorial Board. Revision of manuscripts under the Supplements section will be in charge of reviewers appointed by the Editorial Board in the case of extensive reviewing, and of guest editors in the case of abstracts of meetings. Supplements will be wholly financed by the body organizing the scientific meeting, which will bear in mind that supplements should be distributed among participants to the meetings and all members of the *Asociación Argentina de Microbiología* either by subscription or on-line. As regards style and format, supplements shall strictly conform to the standards of *Revista Argentina de Microbiología* in all respects (cover, paper quality, printing, tables and figures, illustrations, etc.), as described in the "Instructions to Authors" section. Supplements corresponding to abstracts of meetings shall include the following information in this order: names of members of the Editorial Board of *Revista Argentina de Microbiología*, data about the event (complete title, venue and date), content list of meetings (in Spanish and English), acknowledgements, names of organizing officers and message delivered by the Chair/s. Abstracts consecutively numbered in Arabic numerals as from 1 (one) should subsequently follow. An alphabetical index of authors and the English and Spanish versions of the instructions to authors of *Revista Argentina de Microbiología* should be printed next. The meeting schedule will only be included in the Supplement as a separate leaflet.

### **Contact details for submission**

Manuscripts should be uploaded in the RAM website (<https://ees.elsevier.com/ram/>).

### **Language**

Manuscripts shall be written in Spanish or English. The Editorial Board encourages authors to use English as their language of choice so that their work reaches wider international scope and readership.

### **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

Manuscripts should be addressed to the Editorial Board of *Revista Argentina de Microbiologia* accompanied by a cover letter according to the following model:

### **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 competing interests 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, 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](#).

### **Use of inclusive language**

Inclusive language acknowledges diversity, conveys respect to all people, is sensitive to differences, and promotes equal opportunities. Content should make no assumptions about the beliefs or commitments of any reader; contain nothing which might imply that one individual is superior to another on the grounds of age, gender, race, ethnicity, culture, sexual orientation, disability or health condition; and use inclusive language throughout. Authors should ensure that writing is free from bias, stereotypes, slang, reference to dominant culture and/or cultural assumptions. We advise to seek gender neutrality by using plural nouns ("clinicians, patients/clients") as default/wherever possible to avoid using "he, she," or "he/she." We recommend avoiding the use of descriptors that refer to personal attributes such as age, gender, race, ethnicity, culture, sexual orientation, disability or health condition unless they are relevant and valid. These guidelines are meant as a point of reference to help identify appropriate language but are by no means exhaustive or definitive.

### **Authorship**

All authors should have made substantial contributions to all of the following: (1) the conception and design of the study, or acquisition of data, or analysis and interpretation of data, (2) drafting the article or revising it critically for important intellectual content, (3) final approval of the version to be submitted.

### **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.

### **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**

This is an open access journal: all articles will be immediately and permanently free for everyone to read and download. To provide open access, this journal has an open access fee (also known as an article publishing charge APC) which needs to be paid by the authors or on their behalf e.g. by their research funder or institution.

Articles submitted will be charged based on the type of publication; the extension and format of manuscripts will have to follow the instructions indicated above.

**Publishing charges AAM member\*** Letter to editor: \$ (ARS) 1200 Images: \$ (ARS) 1200 Brief reports: \$ (ARS) 2200 Original research: \$ (ARS) 3500 Review: \$ (ARS) 5800

**Non-members** Letter to editor: \$ (ARS) 2400 Images: \$ (ARS) 2400 Brief reports: \$ (ARS) 4400 Original research: \$ (ARS) 7000 Review: \$ (ARS) 11600

**Other countries** Letter to editor: USD 300 Images: USD 300 Brief reports: USD 750 Original research: USD 950 Review: USD 1600

\*AAM members status are considered only for corresponding authors.

For further information regarding payment methods, please contact *Asociacion Argentina de Microbiologia* **Mail:** [info@aam.org.ar](mailto:info@aam.org.ar)

#### *Open access*

This is an open access journal: all articles will be immediately and permanently free for everyone to read and download. To provide open access, this journal has an open access fee (also known as an article publishing charge APC) which needs to be paid by the authors or on their behalf e.g. by their research funder or institution. Articles submitted will be charged based on the type of publication; the extension and format of manuscripts will have to follow the instructions indicated above.

The charge of the publication can be modified without previous notice.

#### **Open access**

Please visit our [Open Access page](#) for more information.

#### *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.

#### **Informed consent and patient details**

Studies on patients or volunteers require ethics committee approval and informed consent, which should be documented in the paper. Appropriate consents, permissions and releases must be obtained where an author wishes to include case details or other personal information or images of patients and any other individuals in an Elsevier publication. Written consents must be retained by the author but copies should not be provided to the journal. Only if specifically requested by the journal in exceptional circumstances (for example if a legal issue arises) the author must provide copies of the consents or evidence that such consents have been obtained. For more information, please review the [Elsevier Policy on the Use of Images or Personal Information of Patients or other Individuals](#). Unless you have written permission from the patient (or, where applicable, the next of kin), the personal details of any patient included in any part of the article and in any supplementary materials (including all illustrations and videos) must be removed before submission.

#### **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 <https://ees.elsevier.com/ram/> including the following separate files: Cover letter, Ethical disclosures, Manuscript, Tables, Figures and when it is appropriate, Supplementary data. Authors should revise this [checklist file](#) and verify that all requirements have been met.

#### *Referees*

Please submit the names and institutional e-mail addresses of several potential referees. For more details, visit our [Support site](#). Note that the editor retains the sole right to decide whether or not the suggested reviewers are used.

## PREPARATION

### **Peer review**

This journal operates a double anonymized 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. Editors are not involved in decisions about papers which they have written themselves or have been written by family members or colleagues or which relate to products or services in which the editor has an interest. Any such submission is subject to all of the journal's usual procedures, with peer review handled independently of the relevant editor and their research groups. [More information on types of peer review.](#)

### **Double anonymized review**

This journal uses double anonymized review, which means the identities of the authors are concealed from the reviewers, and vice versa. [More information](#) is available on our website. To facilitate this, please include the following separately:

*Title page (with author details):* This should include the title, authors' names, affiliations, acknowledgements and any Declaration of Interest statement, and a complete address for the corresponding author including an e-mail address.

*Blinded manuscript (no author details):* The main body of the paper (including the references, figures, tables and any acknowledgements) should not include any identifying information, such as the authors' names or affiliations.

### **Double-blind review**

This journal uses double-blind review, which means the identities of the authors are concealed from the reviewers, and vice versa. [More information](#) is available on our website. To facilitate this, please include the following separately: *Title page (with author details):* This should include the title, authors' names and affiliations, and a complete address for the corresponding author including an e-mail address. *Blinded manuscript (no author details):* The main body of the paper (including the references, figures, tables and any Acknowledgements) should not include any identifying information, such as the authors' names or affiliations.

### **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 - unnumbered sections**

Divide your article into clearly defined sections. Each subsection is given a brief heading (Introduction, Material and methods, Results, Discussion and Conclusions). Each heading should appear on its own separate line. Subsections should be used as much as possible when cross-referencing text: refer to the subsection by heading as opposed to simply 'the text'.

#### **Introduction**

It should provide sufficient and relevant information on the topic to be analyzed or allow the understanding of non-specialized readers. It should also include the hypothesis or scientific background that guided the experimental lay out of the work as well as its clearly defined objectives. References mentioned in this section should be the most relevant ones with respect to the topic and must be carefully chosen.

### *Material and methods*

This section should include an accurate and detailed description of the methods, equipment, reagents and procedures used, so that the experiments could be replicated. Frequently used or routine procedures and techniques may be mentioned by specific reference (eg. MIC determination by the CLSI methods, 2013). New methods or those especially developed for the study should be described in detail, as well as infrequent drug sources or biological materials (bacterial, viral, fungal strains and plasmids, etc.). Trademarks and origin of reagents, culture means and equipment should be indicated in the text the first time they are mentioned, identifying the commercial brand name, state and country of origin.

### *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.

### **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 (Originals and Special Articles: 250 words/Brief Reports: 150 words). 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.

### *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.

### *Units*

Follow internationally accepted rules and conventions: use the international system of units (SI). If other units are mentioned, please give their equivalent in SI.

## **Artwork**

### *Image manipulation*

Whilst it is accepted that authors sometimes need to manipulate images for clarity, manipulation for purposes of deception or fraud will be seen as scientific ethical abuse and will be dealt with accordingly. For graphical images, this journal is applying the following policy: no specific feature within an image may be enhanced, obscured, moved, removed, or introduced. Adjustments of brightness, contrast, or color balance are acceptable if and as long as they do not obscure or eliminate any information present in the original. Nonlinear adjustments (e.g. changes to gamma settings) must be disclosed in the figure legend.

### *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.
- Ensure that color images are accessible to all, including those with impaired color vision.

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). [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**

It is convenient that 70% whenever possible of bibliographic citations in all manuscripts correspond to the last 10 years and the remaining 30% be distributed in key references from previous years. Names of authors cited shall be listed in alphabetical order and numbered in sequence with Arabic numerals on a separate page. Citations in the text should appear as superscript numbers, to coincide with the number they have in the References section. Reference to personal comments and un-published works should be presented as personal communication, written between parentheses.

References should include the name of all the authors and conform to the following models:

**a.Periodical publications**

Héritier C, Poirel L, Lambert T, Nordmann P. Contribution of acquired carbapenem-hydrolyzing oxacillinases to carbapenem resistance in *Acinetobacter baumannii*. *Antimicrob Agents Chemother.* 2005;49:3198-202.

**b.Chapters of books/modules**

Martins Teixeira L, Siqueira Carvalho M da G, Facklam RR. Enterococcus. En: Murray PR, Baron EJ, Jorgensen JH, Landry ML, Pfaller MA, editors. *Manual of Clinical Microbiology*, 9th edition. Washington DC, ASM Press, 2007, p. 430-42.

**c.Presentations in scientific meetings or other events**

Aguilar M, Punschke K, Touati D, Pianzola MJ. Estudios fisiológicos y genéticos en la bacteria sulfato reductora *Desulfoarculus baarsii*. Terceras Jornadas Rioplatenses de Microbiología, 1997, Resumen J2, p. 102, Ciudad Autónoma de Buenos Aires, Argentina.

**d.Presentations in congresses or other scientific meetings in a supplement published by a periodic academic journal**

Fellner MD, Correa RM, Durand K, Teyssié AR, Picconi MA. Análisis del ADN circulante de virus Epstein-Barr (EBV) en pacientes inmunosuprimidos con y sin linfomas asociados. VIII Congreso Argentino de Virología, Resumen 10416. *Rev Argent Microbiol.* 2005;37 Supl 1:95.

### **e. Institutional publications**

Clinical and Laboratory Standards Institute. Disk diffusion. Performance Standards for Antimicrobial Susceptibility Testing; 15th Informational Supplement, 2005; M100-S15. Wayne, PA, EE.UU.

### **f. Theses**

Brizzio A. Aplicación de una PCR múltiple para la identificación de cepas de *Staphylococcus aureus* toxigénicas. Tesis de Maestría en Microbiología Molecular 2009. ANLIS "Dr. Carlos G. Malbrán" y Universidad Nacional de San Martín.

### **g. On-line references**

For on-line Books

Sullivan CJ, editor. 1999-2001. Fungi: an evolving electronic resource for the microbiological community. ASM Press. [On-line] <http://link.asmtusa.de/link/service/books/91090>. Last checked September 7th, 2001.

For on-line versions of printed journals

Van der Zeiss L, Danziger VB. History of clinical microbiology. Clin Microbiol. 1999;100:123-234. [On-line]

For journals only available on-line

Zellnitz F, Foley PM. October 1998, posting {or revision} date. History of virology. Am Virol J. 1998;1:30-50. [Online] <http://www.avj.html>.

For manuscripts published *on line* in advance of their publication

Zheng Z, Zou J. 5 September 2001. The initial step of the glycerolipid pathway: identification of glycerol-3-phosphate/dihydroxy-acetone phosphate dual substrate acyltransferases in *Saccharomyces cerevisiae*. J Biol Chem. 10.1074/jbc.M104749200.

For databases and websites not published in journals

Orpha.net [Internet]. Paris: Orphanet; 2000 [updated February 14 2013; cited April 4 2013]. Available from: <http://www.orpha.net/consor/cgi-bin/index.php>

### **h. References to other data or to unpublished abstracts of meetings, data in the publishing process or under revision; personal communications; patents already applied for or pending; or information obtained from websites must be cited in the main text between parentheses, as indicated below:**

... similar results (Gómez H, unpublished results)

... new protocol used for detection (González JL, sent for publication).

... novel species of cellulolytic bacteria (Márquez W, personal communication)

... mentioned previously on different sources (<http://fcen.uba.edu.ar>)

### **i. Reference to a dataset:**

[dataset] Oguro M, Imahiro S, Saito S, Nakashizuka T. Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data. 2015;1.

### *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 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](#). Using citation 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. If you use reference management software, please ensure that you remove all field codes before submitting the electronic manuscript. [More information on how to remove field codes from different reference management software](#).

If you manage your research with Mendeley Desktop, you can easily install the reference style for this journal by clicking this [link](#).

#### *Journal abbreviations source*

Abbreviations of journals titles must be in accordance the Index Medicus (the complete list can be found at <http://www.ncbi.nlm.nih.gov/sites/entrez?db=journals>).

### **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.

### **Research data**

This journal encourages and enables you to share data that supports your research publication where appropriate, and enables you to interlink the data with your published articles. Research data refers to the results of observations or experimentation that validate research findings. To facilitate reproducibility and data reuse, this journal also encourages you to share your software, code, models, algorithms, protocols, methods and other useful materials related to the project.

Below are a number of ways in which you can associate data with your article or make a statement about the availability of your data when submitting your manuscript. If you are sharing data in one of these ways, you are encouraged to cite the data in your manuscript and reference list. Please refer to the "References" section for more information about data citation. For more information on depositing, sharing and using research data and other relevant research materials, visit the [research data](#) page.

#### *Data linking*

If you have made your research data available in a data repository, you can link your article directly to the dataset. Elsevier collaborates with a number of repositories to link articles on ScienceDirect with relevant repositories, giving readers access to underlying data that gives them a better understanding of the research described.

There are different ways to link your datasets to your article. When available, you can directly link your dataset to your article by providing the relevant information in the submission system. For more information, visit the [database linking page](#).

For [supported data repositories](#) a repository banner will automatically appear next to your published article on ScienceDirect.

In addition, you can link to relevant data or entities through identifiers within the text of your manuscript, using the following format: Database: xxxx (e.g., TAIR: AT1G01020; CCDC: 734053; PDB: 1XFN).

#### *Mendeley Data*

This journal supports Mendeley Data, enabling you to deposit any research data (including raw and processed data, video, code, software, algorithms, protocols, and methods) associated with your manuscript in a free-to-use, open access repository. During the submission process, after uploading your manuscript, you will have the opportunity to upload your relevant datasets directly to *Mendeley Data*. The datasets will be listed and directly accessible to readers next to your published article online.

For more information, visit the [Mendeley Data for journals page](#).

#### *Data statement*

To foster transparency, we encourage you to state the availability of your data in your submission. This may be a requirement of your funding body or institution. If your data is unavailable to access or unsuitable to post, you will have the opportunity to indicate why during the submission process, for example by stating that the research data is confidential. The statement will appear with your published article on ScienceDirect. For more information, visit the [Data Statement page](#).

## **AFTER ACCEPTANCE**

### **Proofs**

One set of page proofs (as PDF files) will be sent by e-mail to the corresponding author (if we do not have an e-mail address then paper proofs will be sent by post) or a link will be provided in the e-mail so that authors can download the files themselves. To ensure a fast publication process of the article, we kindly ask authors to provide us with their proof corrections within two days. Elsevier now provides authors with PDF proofs which can be annotated; for this you will need to [download the free Adobe Reader](#), version 9 (or higher). Instructions on how to annotate PDF files will accompany the proofs (also given online). The exact system requirements are given at the [Adobe site](#).

If you do not wish to use the PDF annotations function, you may list the corrections (including replies to the Query Form) and return them to Elsevier in an e-mail. Please list your corrections quoting line number. If, for any reason, this is not possible, then mark the corrections and any other comments

(including replies to the Query Form) on a printout of your proof and scan the pages and return via e-mail. 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. We will do everything possible to get your article published quickly and accurately. 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 be notified and receive a link to the published version of the open access article on [ScienceDirect](#). This link is in the form of an article DOI link which can be shared via email and social networks. 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](#).

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