**DESCRIPTION**

*Mycoscience* is the official English-language journal of the Mycological Society of Japan and is issued bimonthly. *Mycoscience* publishes original research articles and reviews on various topics related to fungi including yeasts and other organisms that have traditionally been studied by mycologists. The research areas covered by *Mycoscience* extend from such purely scientific fields as systematics, evolution, phylogeny, morphology, ecology, physiology, biochemistry, genetics, and molecular biology, to agricultural, medical, and industrial applications. New and improved applications of well-established mycological techniques and methods are also covered.

**IMPACT FACTOR**

2018: 1.380 © Clarivate Analytics Journal Citation Reports 2019

**ABSTRACTING AND INDEXING**

Scopus
Science Citation Index Expanded
Zoological Record
BIOSIS Previews

**EDITORIAL BOARD**

*Editor-in-Chief*
Eiji Tanaka, Ishikawa Prefectural University, Japan

*Senior Editors*
Takayuki Aoki, National Agriculture and Food Research Organization Genetic Resources Center, Japan
Tsutomu Hattori, Forest Research and Management Organisation, Japan
Yoshitaka Ono, Ibaraki University, Japan
Takashi Yaguchi, Chiba University Medical Mycology Research Center, Japan
Akiyoshi Yamada, Shinshu University Graduate School of Agriculture Faculty of Agriculture Division of Bioscience and Biotechnology, Japan

*Managing Editors*
Keisuke Obase, Forestry and Forest Products Research Institute, Japan
Yusuke Takashima, University of Tsukuba, Japan
Shihomi Uzuhashi, National Agriculture and Food Research Organization, Japan
Kohei Yamamoto, Tochigi Prefectural Museum, Japan

Editors
Tadanori Aimi, Tottori University Department of Microbiology, Japan
Feng-Yan Bai, Institute of Microbiology Chinese Academy of Sciences, China
Gerald F Bills, University of Texas System, United States
Yousuke Degawa, University of Tsukuba, Japan
Naoki Endo, Tottori University, Japan
Rikiya Endoh, Institute of Physical and Chemical Research, Japan
Yu Fukasawa, Tohoku University Graduate School of Agricultural Science Faculty of Agriculture Forest Ecology, Japan
Akira Hashimoto, RIKEN Center for Developmental Biology, Japan
Yuuri Hirooka, Hosei University, Japan
Tsuyoshi Hosoya, National Museum of Nature and Science Zoology, Japan
Taiga Kasuya, Chiba Institute of Science, Japan
Roland Kirschner, National Taiwan University, Taiwan
Mizuo Kusuda, Osaka Prefecture University, Japan
Ewald Langer, University of Kassel Department of Biology, Germany
Hayato Masuya, Forestry and Forest Products Research Institute, Japan
Tetsuhiro Matsuzawa, Nagasaki University, Japan
Toshizumi Miyamoto, Hokkaido University, Japan
Kazuhiko Miyazaki, Forestry and Forest Products Research Institute, Japan
Takahiko Nagahama, Notre Dame Seishin University, Japan
Chiharu Nakashima, Mie University, Japan
Oumi Nishi, Kyushu University, Japan
Yuki Ogura-Tsujita, Saga University, Japan
Tzumi Okane, University of Tsukuba, Japan
Cedric Pearce, University of North Carolina at Greensboro, United States
Yuichi Sakamoto, Iwate University, Japan
Hirotoshi Sato, Kyoto University, Japan
Kiminori Shimizu, Tokyo University of Science, Japan
Takashi Shirouzu, Mie University, Japan
Kozue Sotome, Tottori University, Japan
Sung-Oui Suh, American Type Culture Collection, United States
Isshin Tanaka, Daiichi Sankyo RD Novare Co Ltd, Japan
Kazuaki Tanaka, Hirosaki University Faculty of Agriculture and Life Science Graduate School of Agriculture and Life Science, Japan
Yuji Tasaki, Nagaoka National College of Technology, Japan
Masaharu Tsuji, Asahikawa National College of Technology, Japan
James White Jr., Rutgers The State University of New Jersey, United States
Takashi Yamanaka, Forest Research and Management Organisation, Japan
Satoshi Yamashita, University of Tokushima, Japan
Masahide Yamato, Chiba University, Japan
Zhuliang Yang, Chinese Academy of Sciences, China
GUIDE FOR AUTHORS

(Updated 20 November 2015; Please note that Mycoscience has implemented a new page charge policy.)

INTRODUCTION

Aims and Scope

Mycoscience is the official English-language journal of the Mycological Society of Japan and is issued bimonthly. Mycoscience publishes original research articles and reviews on various topics related to fungi including yeasts and other organisms that have traditionally been studied by mycologists. The research areas covered by Mycoscience extend from such purely scientific fields as systematics, evolution, phylogeny, morphology, ecology, physiology, biochemistry, genetics, and molecular biology, to agricultural, medical, and industrial applications. New and improved applications of well-established mycological techniques and methods are also covered.

Types of articles

Mycoscience publishes the articles in the following four categories: Full papers, Short communications, Notes, and Reviews.

Full papers are detailed, well-documented reports containing original, comprehensive, and complete work. Therefore, the papers in this category should be original and have scientific merit.

Short communications, reporting timely novel findings, are brief accounts of original research results and should adhere to a similar standard of quality and scientific rigor as Full papers.

Notes are similar to Short communications, but include fewer novel findings.

Contact details for submission

Authors are requested to submit their papers electronically by using the Learning and Instruction online submission and review website (https://eeslive.elsevier.com/myc/default.asp). This site will guide authors stepwise through the submission process. Authors are requested to submit the text, tables, and artwork in electronic form to this address. Authors who are unable to provide an electronic version or have other circumstances that prevent online submission must contact the Editor prior to submission to discuss alternative options; email: editorial-office@mycology-jp.sakura.ne.jp. The Publisher and Editor regret that they are not able to consider submissions that do not follow these procedures.

Submission fee

This journal has Submission Fee. Mycoscience is the official English-language journal of the Mycological Society of Japan (MSJ). Payment of submission fee allows the society to support more effectively mycology, management, and education worldwide. Authors must be aware that they are responsible for submission fee if their submission is accepted for publication. Page charges are based on the typeset journal pages. Accepted manuscripts will not move into production until payment has been received. The invoice and other details will be sent to the corresponding author by the officer of MSJ.

Regular members/Student members/Life members/Honorary members of the MSJ as corresponding author or first author: There are no submission fee for manuscripts with eight typeset journal pages for a Full paper and Review, or four printed pages for a Short communication and Note. For each extra typeset journal page, however, authors will be charged JPY 15,000.

Others: Authors will be charged JPY 6,000 for each of the first eight typeset journal pages for a Full paper and Review, or for each of the first four typeset journal pages for a Short communication and Note. In addition, authors will be charged JPY 15,000 for each extra typeset journal page. Before submitting a manuscript to Mycoscience, corresponding author or first author is encouraged in advance to obtain a membership of MS J (Regular or Student Member). With a similar cost equivalent to the submission fee for non-members for only one or two page(s), the author may have full right for the society members including special allowance for publishing papers from Mycoscience for one membership year.

Submission checklist

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

One author has been designated as the corresponding author with contact details:
- E-mail address
- Full postal address

All necessary files have been uploaded:
**Manuscript:**
- Include keywords
- All figures (include relevant captions)
- All tables (including titles, description, footnotes)
- Ensure all figure and table citations in the text match the files provided
- Indicate clearly if color should be used for any figures in print
**Graphical Abstracts / Highlights files** (where applicable)
**Supplemental files** (where applicable)

Further considerations
- Manuscript has been 'spell checked' and 'grammar checked'
- All references mentioned in the Reference List are cited in the text, and vice versa
- Permission has been obtained for use of copyrighted material from other sources (including the Internet)
- A competing interests statement is provided, even if the authors have no competing interests to declare
- Journal policies detailed in this guide have been reviewed
- Referee suggestions and contact details provided, based on journal requirements

For further information, visit our Support Center.

BEFORE YOU BEGIN

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

**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**
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.

**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').

**Contributors**
Each author is required to declare his or her individual contribution to the article: all authors must have materially participated in the research and/or article preparation, so roles for all authors should be described. The statement that all authors have approved the final article should be true and included in the disclosure.

**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" (for more information on this and on the copyright, see [https://www.elsevier.com/copyright](https://www.elsevier.com/copyright)). Acceptance of the agreement will ensure the widest possible dissemination of information. 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 their 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 (please consult [https://www.elsevier.com/permissions](https://www.elsevier.com/permissions)). If excerpts from other copyrighted works are included, the author(s) must obtain written permission from the copyright owners of these works and credit the source(s) in the article. As for a commissioned article, please contact Editorial Office. Elsevier has preprinted forms for use by authors in these cases. Please consult [https://www.elsevier.com/permissions](https://www.elsevier.com/permissions).

**Elsevier supports responsible sharing**
Find out how you can share your research published in Elsevier journals.

**Retained author rights**
As an author you (or your employer or institution) retain certain rights; for details you are referred to [https://www.elsevier.com/authorsrights](https://www.elsevier.com/authorsrights).

**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, this should be stated. Please see [https://www.elsevier.com/funding](https://www.elsevier.com/funding).

**Funding body agreements and policies**
Elsevier has established agreements and developed policies to allow authors whose articles appear in journals published by Elsevier to comply with potential manuscript archiving requirements as specified as conditions of their grant awards. To learn more about existing agreements and policies please visit [https://www.elsevier.com/fundingbodies](https://www.elsevier.com/fundingbodies).

**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 and language services

Please write your text in good English (American usage is preferable). At Elsevier, copyediting of accepted papers for Mycoscience follows American English standards. Authors who need information on language editing and copyediting services pre- and postsubmission can visit the Elsevier website for language services http://webshop.elsevier.com/lanuageservices or the customer support site http://service.elsevier.com for more information.

Patient details

Unless you have a written permission from a patient (or, where applicable, the next of kin), personally identifiable information 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. For further information, see https://www.elsevier.com/patientphotographs.

Submission

Authors should submit their manuscripts to the Mycoscience online manuscript submission, review, and tracking system, the Elsevier Editorial System™ (EES). If the corresponding author or the first author is a Regular member/Student member/Life member/Honorary member of the Mycological Society of Japan, please provide the membership number when submitting a manuscript via EES.

Electronic submission substantially reduces editorial processing and reviewing times and shortens overall publication time. Please follow the hyperlink "Submit online" and upload all your manuscript files following the instructions given on the screen (Do not upload Excel files for tables; see "Text formatting" below).

Authors should review Reference Checking Results during the electronic submission and attempt to resolve any problems with the references prior to submitting the manuscript.

Please submit the names and e-mail addresses of three to five potential reviewers with the manuscript. Note that the editor reserves the right to decide whether the suggested reviewers are qualified.

Highlights

When submitting a manuscript in EES, authors are asked to submit research Highlights. These are a collection of three to five short bullet points that convey the core findings (e.g., results or conclusions) and provide readers with a quick textual overview of the article. Highlights should be submitted as a separate file in EES by selecting "Highlights" from the drop-down menu when uploading the files.

Specifications: Include three to five bullet points (a maximum of 85 characters per bullet point, including spaces); only the core results of the paper should be covered. Highlights will be displayed in online search results, the contents list, and in the online article but will not appear in the articles PDF file or in print.

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

Disclosures

All potential conflicts of interest must be disclosed in this section. Potential conflicts of interest include all financial and personal relationships with other people or organizations that could inappropriately influence (bias) your work. Examples of potential conflicts of interest include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding (from the private sector).
Acknowledgments
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.).

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 encouraged A DOI can be used to cite and link to electronic articles where an article is in-press and full citation details are not yet known, but the article is available online. 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, http://dx.doi.org/10.1029/2001JB000884i. 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.

Reference style
Text: Citations in the text should follow the referencing style used by the American Psychological Association. You are referred to the Publication Manual of the American Psychological Association, Sixth Edition, ISBN 978-1-4338-0561-5, copies of which may be ordered online or APA Order Dept., P.O.B. 2710, Hyattsville, MD 20784, USA or APA, 3 Henrietta Street, London, WC3E 8LU, UK. Citations are arranged in chronological order; publications from the same year should be arranged in alphabetical order. Examples: Negotiation research spans many disciplines (Thompson, 1990). This result was later contradicted (Becker and Seligman, 1996). This effect has been widely studied (Abbott, 1991; Medvec et al., 1993a, 1993b, 1995; Barakat et al., 1995; Kelso and Smith, 1998).

List: the list of references should include only works that are cited in the text and have been published or accepted for publication. Personal communications and unpublished works should be mentioned only in the text. Do not use footnotes or endnotes as a substitute for a reference list. Reference list entries should be alphabetized by the last name of the authors and their initials (priority: the first author, the second author, the third author, and so on). If the same author is present in more than one source, these entries should be listed in chronological order. See "Sample Pages" for details. Examples: Journal articles (Note: journal names are not to be abbreviated; citation by DOI is strongly recommended)


**Peer review**

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

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

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

Results
Results should be clear and concise.

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

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

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

Essential title page information
• Title. Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.
• Author names and affiliations. Please clearly indicate the given name(s) and family name(s) of each author and check that all names are accurately spelled. You can add your name between parentheses in your own script behind the English transliteration. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.
• Corresponding author. Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. This responsibility includes answering any future queries about Methodology and Materials. Ensure that the e-mail address is given and that contact details are kept up to date by the corresponding author.
• Present/permanent address. If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.

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

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.

Quantity and units
All measurements should be expressed in the metric system and abbreviated. Use the recommended SI units (Système International d’Unités) as a general rule. When non-SI units are used, they must be explained clearly to avoid ambiguity.

Use Roman type for units and abbreviated units, without periods. Care should be taken to italicize only the units for absorbance, gravitational acceleration, and water activity. The abbreviated units should not be provided in the plural form, that is, an s should not be added to the unit.

Units should be abbreviated as follows:

- length: nm, μm, mm, cm, m
- mass: pg, ng, μg, mg, g, kg
- amount of substance: nmol, μmol, mmol, mol
- molar concentration: μM, mM, M
- area: mm², cm², m²
- volume: μl, mL, L (capitalize L, to avoid confusion with number 1), cm³, m³
- time: s, min, h, d, wk, mo, y
- names of months by first three letters: Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec
- temperature: °C (example: 37 °C), K
- absorbance: A (example: A₂₆₀)
- gravitational acceleration: g (example: 10,000 g)
- light: J, lx, lm, W
- molecular weight: Da, kDa
- water activity: A_w

Concentrations of solutions are preferably expressed in terms of molarity (M). The percentage symbol % must be used in its correct sense, e.g., g/100 g; otherwise it must be defined as “% (v/v)” or “% (w/v)”, e.g., 5% (v/v). Use μg/mL or μg/g in place of the ambiguous ppm.
**Measurements**

Record measurements as length by width (or diameter). Place exceptional dimensions in parentheses. Indicate mean values separately.

Example: (10–)13–16(–18.5) μm, 15.5 x 7.5 μm on average. Use en dash, not hyphen, for measurements.

**Artwork**

**Electronic artwork**

**General points**

- Make sure you use uniform lettering and sizing of your original artwork.
- Embed the fonts if the software provides that option.
- Aim to use the following fonts in your illustrations: Arial, Courier, Times New Roman, Symbol; alternatively, use fonts that look similar.
- Number the illustrations according to their sequence in the text.
- Use a logical naming convention for your artwork files (e.g., Fig1.tif, Fig2_ITStree.pdf, Fig3_rev.eps).
- Provide figure legends separately from illustrations.
- Size the illustrations close to the desired dimensions of the printed version.
- Submit each illustration as a separate file.

A detailed guide on electronic artwork is available on our website: https://www.elsevier.com/artworkinstructions

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

**Formats**

If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel), 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: i.e., It is recommended that each individual figure file does not exceed 50MB and that the combined size of all the files for submission does not exceed 700MB. Upload of large files may result in problems such as time out during upload or PDF build failure.

**Color artwork**

Please make sure that artwork files are in an acceptable format (TIFF, EPS 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 on the Web (e.g., ScienceDirect and other sites) regardless of whether or not these illustrations are reproduced in color in the printed version. **For color reproduction in print, you will receive information regarding the costs from Elsevier after receipt of your accepted article.** No charge for color reproduction in print will be made for the papers whose first author and/or corresponding author are the member (exclusive of the sustaining member) of the Mycological Society of Japan. Please indicate your preference for color: in print or on the Web only. For further information on the preparation of electronic artwork, please see https://www.elsevier.com/artworkinstructions.

Note: because of technical complications which can arise by converting color figures to 'gray scale' please submit in addition usable black and white versions of all the color illustrations. For the printed version should you not opt for color in print.
**Figure numbering and labeling**
Number figures consecutively in the order they appear in the text. For a composite figure composed of multiple sections, each section should be labeled A, B, C and so on (use uppercase letters).

**Figure placement and size**
- When preparing your figures, size figures to fit in the column width.
- The figures should be 84 mm, 131 mm, or 174 mm wide and not higher than 240 mm.
- The publisher reserves the right to reduce or enlarge figures.

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

**Tables**
Number tables consecutively in the order they appear in the text. Include footnotes if necessary and indicate them with superscript lowercase letters (not asterisks). Avoid vertical lines and unnecessary horizontal lines. Use tables sparingly and make sure that the data presented in tables do not duplicate results described elsewhere in the article.

**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.

**Data visualization**
Include interactive data visualizations in your publication and let your readers interact and engage more closely with your research. Follow the instructions here to find out about available data visualization options and how to include them with your article.

**Supplementary material**
Supplementary material can support and enhance your scientific research. Supplementary files offer the author additional possibilities to publish supporting applications, high-resolution images, background datasets, sound clips and more. Please note that such items are published online exactly as they are submitted; there is no typesetting involved (supplementary data supplied as an Excel file or as a PowerPoint slide will appear as such online). Please submit the material together with the article and supply a concise and descriptive caption given directly on each file in a readable format, not in the main body of the text. If you wish to make any changes to supplementary data during any stage of the process, then please make sure to provide an updated file, and do not annotate any corrections on a previous version. Please also make sure to switch off the 'Track Changes' option in any Microsoft Office files as these will appear in the published supplementary file(s). For more detailed instructions please visit our artwork instruction pages at https://www.elsevier.com/artworkinstructions.

**Supplementary material captions**
Each supplementary material file should have a short caption which will be placed at the bottom of the article, where it can assist the reader and also be used by search engines.

**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 in Brief
You have the option of converting any or all parts of your supplementary or additional raw data into one or multiple data articles, a new kind of article that houses and describes your data. Data articles ensure that your data is actively reviewed, curated, formatted, indexed, given a DOI and publicly available to all upon publication. You are encouraged to submit your article for Data in Brief as an additional item directly alongside the revised version of your manuscript. If your research article is accepted, your data article will automatically be transferred over to Data in Brief where it will be editorially reviewed and published in the open access data journal, Data in Brief. Please note an open access fee of 600 USD is payable for publication in Data in Brief. Full details can be found on the Data in Brief website. Please use this template to write your Data in Brief.

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.

Submission checklist
The following list will be useful during the final preparation of an article prior to sending it to the journal for review. Please consult this Guide for Authors for further details about any item in the list.

Ensure that the following items are present and in good condition (failure to do so will result in the return or rejection of the manuscript before peer review):

Title page, Abstract and Keywords:
• A concise and informative title
• Full names of all authors; their complete affiliations and full postal addresses in good format
• One author has been designated as the corresponding author with contact details: 1) Name; 2) Telephone and fax numbers; 3) E-mail address
• Abstract and Keywords in the required format

All necessary files have been uploaded and contain:
• Text in the required format (Note: recheck the headings, references, fungal nomenclature and descriptions, etc.)
• All figure legends in the required format
• All tables (including title, description, and footnotes) and figures in the required format and of appropriate high quality
• Highlights in the required format
• Authors' response to reviewers' comments (only for the revised manuscript)

Further considerations:
• Manuscript has been spell-checked and grammar-checked in Microsoft Word or some other word processor.
• References are in the correct format for this journal.
• All references mentioned in the Reference list are cited in the text and vice versa.
• Permission is obtained for use of copyrighted material from other sources (including the Web) and documentation for this permission is available upon request.
• Color figures are clearly marked as being intended for color reproduction on the Web (free of charge) and in print, or to be reproduced in color on the Web (free of charge) and in grayscale in print.
• If color only on the Web is requested, then grayscale versions of the figures should also be supplied for printing purposes.
• Authors must deposit information on newly recognized taxa in MycoBank (http://www.mycobank.org/) or in another nomenclatural registry accepted by the ICN and to indicate the accession number below the new taxon name.
• Molecular sequence data must be deposited in a molecular sequence repository (DDBJ, http://www.ddbj.nig.ac.jp/index-e.html; EMBL, http://www.ebi.ac.uk/; or GenBank, http://www.ncbi.nlm.nih.gov/Genbank/); the accession numbers must be cited in the manuscript.
• Authors are requested to deposit sequence alignments in TreeBASE (http://treebase.org/treebase-web/) or in other public databases and to indicate the accession number in the manuscript.

For any further information please visit our customer support website at https://service.elsevier.com.

AFTER ACCEPTANCE

Proofs
One set of page proofs (as PDF files) will be sent by e-mail to the corresponding author or, a link will be provided in the e-mail so that authors can download the files themselves. Elsevier now provides authors with PDF proofs which can be annotated; for this you will need to download the latest Adobe Reader available free from http://get.adobe.com/reader and use correct version of the program, although PDF files can be read by other programs, recently. Instructions on how to annotate PDF files will accompany the proofs (also given online). The exact system requirements are given at the Adobe site: http://www.adobe.com/products/reader.tech-specs.html.

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 by 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 return by fax, or scan the pages and e-mail, or by post. 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-in-Chief. We will do everything possible to get your article published quickly and accurately — please let us have all your corrections within 48 hours. 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 the corresponding authors responsibility. Note that Elsevier may proceed with the publication of your article if no response is received.

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