

How to prepare a manuscript for *BioScience*

Manuscripts submitted must follow the format specified here.

THE *BIOSCIENCE* STAFF

The editors of *BioScience* welcome original manuscripts written for a broad audience of professional biologists, biology teachers, advanced students, and policymakers. We give priority to articles that explain connections between disciplines or synthesize conclusions of general interest to biologists.

Overview articles summarize recent advances in important areas of biological research. Roundtable articles bring together the views of authors from different disciplines on issues important to biologists. The Education department contains articles on the teaching of biology to students and to the general public. Professional Biologist discusses issues in the practice of biological professions. Thinking of Biology consists of essays on the philosophy of biology, and Biology in History articles address the history of biological thought. Biologist's Toolbox articles discuss technology's contribution to the practice of biology. Forum essays address topical issues.

Articles in the preceding categories, whether invited or independently submitted, undergo peer review of their content and writing style; they should provide new data or build on published findings. *BioScience* also publishes some nontechnical material that is generally not subject to peer review. In this category are letters pertaining to previously published material; Features, which are stories of general interest to scientists; Editorials, which are short opinion pieces; Viewpoints, which are longer opinion pieces; book reviews and special book articles; Eye on Education; Washington Watch; BioBriefs; and occasional Special Reports. Counterpoints are invited responses to other articles. Send inquiries to bioscience@aibs.org.

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Authors must transfer certain copyrights to the publisher. AIBS recommends that original data reported be deposited in a suitable public database.

Overview articles

Overview articles should include background information for biologists in a variety of fields. They must be no longer than 20 double-spaced pages (6500 words, excluding figures, tables, and references). No more than 60 references should be cited. Please include an abstract of up to 150 words and list up to five keywords. *BioScience* occasionally publishes special sections, which are compilations of overview articles on particular topics.

Department and nontechnical articles

Editorials may cover any topic of interest to biologists, from science policy to technical controversy. Editorials should not exceed 500 words and may not list references. The word limit for Viewpoint

manuscripts is 1400; please keep references cited to a minimum. Viewpoints generally have a single author.

Manuscripts for Roundtable, Forum, Education, Professional Biologist, Thinking of Biology, Biology in History, Biologist's Toolbox, and special book articles should not exceed 15 double-spaced pages (4500 words, excluding figures, tables, and references) and should cite no more than 40 references. Please submit an abstract of up to 150 words and list up to five keywords. Department articles may include a few photographs, drawings, figures, or tables.

Book reviews and Features are generally solicited. Send queries regarding ideas for feature stories to the features editor (features@aibs.org).

Manuscript preparation

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Document format. Use double-spacing and 12-point font throughout all text, tables, references, and figure captions. Number all pages. Avoid the use of appendixes and footnotes in the text. Put tables and figure captions at the end of the document. The title page should contain authors' names, titles, affiliations, and postal and e-mail addresses.

Style. Follow Scientific Style and Format (CBE 1994) for conventions in biology. For general style and spelling, consult the *Chicago Manual of Style* (Chicago 2003) and a dictionary such as *Merriam-Webster's Collegiate Dictionary* (Mish et al. 2003). Also refer to "A Guide to *BioScience* Style" at www.aibs.org/bioscience/resources/BioScience_Style_Guide.pdf.

Symbols, acronyms, and units of measure. Define all symbols, and spell out all acronyms and units of measure the first time they are used; abbreviate them thereafter. Use the metric system, SI units (Système international d'unités), to express weights and measures.

Tables and figures. *BioScience* style is to capitalize only the first word in figure and table titles (and subheads), except for proper nouns. Use lowercase letters to indicate footnotes in tables and panels in figures. Put panel labels in the upper left corner of figures, if feasible. Construct tables without vertical rules. For more general guidelines on the construction of tables, see chapter 13 in Chicago (2003).

Artwork should suit the manner in which it will be published. Do not, for example, use colored bars or lines in a graph that will be published in black and white. Artwork submitted for publication should be of the highest quality, in vector-graphic format if possible, or with a minimum resolution of 600 dpi for line art and 400 dpi for photographs at 4 × 6 inches for figures intended to run within the article, and the same resolution at 8 × 11 inches for figures intended for the cover. Images for the cover of *BioScience* should have a vertical (portrait) orientation. Photographs (without text) should be submitted in .tif format. All other art should be submitted in .eps format.

References cited. The number of references cited should comply with the limits specified above. Personal communications should be cited parenthetically in the text; the citation should include the source's name and affiliation and the date of the communication: (Henry J. Smith, [university or other affiliation, city, state], personal communication, [date of communication]). Submit letters from authors of personal communications giving permission to use the material. Manuscripts submitted for publication but not yet accepted may not be cited. In-text citations of published references take this form: (Author date). Multiple in-text citations are ordered by year of publication, earliest first: (Author 1998, Author 1999, 2000). Use the first author's last name and "et al." for in-text citation

of works with more than two authors or editors. List the name of every author or editor, unless there are more than 10, in References cited; for works with more than 10 authors or editors, list the name of the first and indicate the others with "et al." List all works cited in the text in References cited; works not cited should not be listed. Provide the full names of all journals. The following examples are typical of references in *BioScience*; refer to recent issues of the journal for additional formatting guidance.

- **Journal article:** Bryant PJ, Simpson P. 1984. Intrinsic and extrinsic control of growth in developing organs. *Quarterly Review of Biology* 59: 387–415.
- **Book:** Ling GN. 1984. In *Search of the Physical Basis of Life*. Plenum Press.
- **Chapter in a book:** Southwood TRE. 1981. Bionomic strategies and population parameters. Pages 30–52 in May RM, ed. *Theoretical Ecology*. Sinauer.
- **Technical report:** Lassister RR, Cooley JL. 1985. Prediction of Ecological Effects of Toxic Chemicals, Overall Strategy and Theoretical Basis for the Ecosystem Model. Government Printing Office. Report no. 83-261-685.
- **Meeting paper:** Kleiman RLP, Hedin RS, Edenbom HM. 1991. Biological treatment of minewater—an overview. Paper presented at the Second International Conference on Abatement of Acid Drainage; 16–18 September 1991, Montreal, Canada.
- **Online article:** Palevitz BA. 2002. Designing science by politics. *The Scientist* 16: 25. (1 April 2003; www.the-scientist.com/yr2002/may/palevitz_p25_020527.html)

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References cited

- [CBE] CBE Style Manual Committee. 1994. *Scientific Style and Format: The CBE Manual for Authors, Editors, and Publishers*. 6th ed. Cambridge University Press.
- [Chicago] University of Chicago Press. 2003. *The Chicago Manual of Style*. 15th ed. University of Chicago Press.
- Mish FC, et al., eds. 2003. *Merriam-Webster's Collegiate Dictionary*. 11th ed. Merriam-Webster.