

# Lipids

## Instructions to authors

### 1 Legal Requirements

The author(s) guarantee(s) that the manuscript will not be published elsewhere in any language without the consent of the copyright owner, the American Oil Chemists' Society; that the rights of third parties will not be violated, and that neither the AOCS nor the publisher will be held legally responsible should there be any claims for compensation. Authors wishing to include figures or text passages that have already been published elsewhere are required to obtain permission from the copyright owner(s) and to include evidence that such permission has been granted when submitting their papers. Any material received without such evidence will be assumed to originate from the authors. Manuscripts must be accompanied by the "Copyright Transfer Statement." The form can be obtained from [springer.com/journal/11745](http://springer.com/journal/11745).

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### 3 Editorial Procedure

Papers must present scientific results that are essentially new, have not been published

previously, and are not intended for publication elsewhere. They have to be written in English using either American or British spelling throughout. Authors who have difficulty with English should obtain the assistance of colleagues more proficient in the language, e.g., in the English departments of their universities, in writing their manuscripts. All manuscripts are subject to peer review. Authors are invited to suggest reviewers.

Authors should submit their manuscripts to the Editorial Office online to facilitate even quicker and more efficient processing. Electronic submission substantially reduces the editorial processing and reviewing times and shortens overall publication times.

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Manuscripts that are returned to the authors for revision should be sent back within 6 weeks for minor and 3 months for major revisions; otherwise they will be considered withdrawn. Rejected manuscripts will not be returned to the authors (except for original illustrations).

Papers that do not conform to the journal norms may be returned to the authors for revision before being considered for publication.

The author is responsible for the accuracy of the references.

### 4 Manuscript Preparation

#### General Remarks

*Lipids* is a journal of the American Oil Chemists' Society that focuses on publishing high-quality peer-reviewed papers and invited reviews in the general area of lipid research, including chemistry, biochemistry, clinical nutrition, and metabolism. In addition, *Lipids* publishes papers establishing novel methods for addressing research questions in the field of lipid research.

Manuscripts may be submitted for publication as *Articles*, *Communications*, or *Letters to the Editor*. *Articles* (full-length papers) are in-depth accounts of comprehensive studies. *Communications* are concise and complete accounts of significant findings of a more

limited scope. The total length of a *Communication* should not exceed 1,500 words. Standards of quality for *Communications* are the same as those for *Articles*; preliminary data are not acceptable, and fragmentation of related results into several reports is discouraged. *Letters to the Editor* are intended for discussion or reinterpretation of published data as well as for presentation of novel hypotheses. Papers concerned with new methodology that are intended for publication in the *Methods* section should be identified as such. *Lipids* publishes invited review articles on timely topics. Authors who desire to submit an uninvited review article must first consult with the Editor-in-Chief before submitting a *Review*.

All manuscripts are subject to copy editing.

#### Nomenclature

Authors are required to follow agreed upon recommendations of nomenclature and to strive for uniformity. Trivial names often are shorter and more commonly understood, but they may be used only after being introduced together with the systematic names. Valuable guidance in the selection of accepted nomenclature is provided in the *Recommendations of the IUPAC-IUB Commission on Biochemical Nomenclature* (CBN) and of the IUB Commission of Editors of Biochemical Journals (CEBJ). Specific recommendations on lipid nomenclature were published by CBN in *Lipids* 12, 455–468 (1977).

Recommendations on the nomenclature of steroids can be found in *Biochemistry* 8, 2227–2242 (1969) and 10, 4994–4995 (1971). A compendium of relevant CBN and CEBJ documents [see also *J. Biol. Chem.* 261, 11 (1986)] was published in 1978 as *Biochemical Nomenclature and Related Documents* by CEBJ. Reprints of individual documents and advice on nomenclature use may be obtained gratis from the Director, Office of Biochemical Nomenclature, Biology Division, Oak Ridge National Laboratory, P.O. Box Y, Oak Ridge, TN 37831 USA, phone +1-615-574-0808. General guidance on nomenclature also can be found in *Scientific Style and Format. The CBE Manual for Authors, Editors, and Publishers*, 6th edn., 1994, published by the Council of Biology Editors, Inc., Bethesda, MD 20814, USA.

**Chemical nomenclature** should conform to the practice of *Chemical Abstracts* (see Index Guide, 1977, and Supplement, 1977–1979). Authors are also referred to the

*ACS Style Guide: A Manual for Authors and Editors*, 2nd edn., published by the American Chemical Society (1997), 1155 Sixteenth St. N.W., Washington, DC 20036, USA.

**Enzymes** should be identified by the name and EC number recommended by the Enzyme Commission. EC numbers should be given on first mention in the abstract and in the text. *Enzyme Nomenclature, Recommendations (1992) of the IUPAC-IUB*, is available from Academic Press, New York and London.

**Isotopically labeled compounds** should be identified by the isotope number given as superscript prefix to the atomic symbol of specific nuclides. In compound names and abbreviations, the symbol of the isotope, in brackets, immediately precedes the name of the labeled part of the structure. Isotopic deuterium substitution can also be indicated according to *Chemical Abstracts* by the italicized, lowercase letter *d* following the compound name.

**Chemical formulae and names** as well as the names of organisms must be unambiguous and in accordance with the relevant international recommendations, cf. "*IUPAC (1993) Quantities, Units and Symbols, in Physical Chemistry*, 2nd edn. Blackwell Scientific, Oxford" and "*ISO (1993) International Vocabulary of Basic and General Terms in Metrology*," Geneva. Trade names should be avoided: abbreviations and uncommon symbols should be explained at first mention.

**Genus and species names** should be in italics. The common names of animals should not be capitalized.

When **drugs** are mentioned, the international (generic) name should be used. The proprietary name, chemical composition, and manufacturer should be stated in full in the Experimental Procedures section.

**DNA sequences** must be submitted to GenBank (NCBI - National Center for Biotechnology Information, Bethesda, USA) or to the EMBL Nucleotide Sequence Data Base (EBI - European Institute of Bioinformatics, Cambridge, UK) and accession numbers must be provided when the paper is accepted.

**Proprietary substances and materials, and instruments.** The correct designation and the manufacturer's name should be given. Where the manufacturer is not well known, the address should also be included.

**Units and abbreviations.** Please adhere to internationally agreed standards such as those adopted by the commission of the International Union of Pure and Applied Physics (IUPAP) or defined by the International Organization of Standardization (ISO). Metric SI units should be used throughout except where non-SI units are more common [e.g. liter (l) for volume].

#### Title Page

The title page should include:

- The name(s) of the author(s) (an asterisk indicates the corresponding author)
- A concise and informative title (limited to 100 characters)

- The affiliation(s) and address(es) of the author(s) where the work was done
- The e-mail address, telephone and fax numbers of the corresponding author

#### Abstract

Each paper must be preceded by an abstract stating the objectives of the research, the experimental approach, the principal new results, and the major conclusions. Abstracts must be self-contained and suitable for reproduction by abstracting services.

Abstracts for *Articles* should not exceed 220 words. Abstracts for *Communications* should not exceed 100 words. *Letters to the Editor* are published with a very short abstract.

#### Key words

Up to 10 key words that describe the subject matter of their paper should be supplied after the Abstract for indexing purposes.

#### Abbreviations and Symbols

All nonstandard abbreviations, arranged alphabetically, should be defined in an unnumbered footnote to the title. Authors are encouraged to follow the conventions of the CBE style manual, 6th edn. An extensive compilation of recommendations and symbols appears each year in the first issue of *Journal of Biological Chemistry*.

A list of **symbols** should follow the abstract if such a list is needed. Symbols must be written clearly. The international system of units (SI units) should be used. Do not confuse mathematical symbols with abbreviations. An excellent discussion of this topic is found on page 102 of abovementioned *ACS Style Guide*.

Essential **footnotes** to the text should be numbered consecutively and placed at the bottom of the page to which they refer.

The **Introduction** should state the purpose of the investigation and give a short review of the pertinent literature.

The **Experimental Procedure** section should follow the Introduction and should provide enough information to ensure the reproducibility of the experimental work. Published methods should be referred to by literature citation of the original procedure and of pertinent published modifications. Use of chemical formulae for simple agents is encouraged. Repetitive descriptions of similar procedures should be avoided. The identity and purity of new compounds must be adequately documented. Spectral data and other physical characteristics of new compounds should be listed concisely. Ratios of components, such as mixtures of solvents, should be given by placing slashes between the component names and colons between the numerals, e.g., chloroform/methanol/water (65:25:4, by vol).

The **Results** section should describe the outcome of the study. Data should be presented as concisely as possible, if appropriate in the form of tables or figures, although very large tables should be avoided.

The **Discussion** should be an interpretation of the results and their significance with reference to work by other authors.

**Acknowledgements.** These should be as brief as possible. Any grant that requires acknowledgement should be mentioned. The names of funding organizations should be written in full.

**Funding.** Authors are expected to disclose any commercial or other associations that might pose a conflict of interest in connection with submitted material. All funding sources supporting the work and institutional or corporate affiliations of the authors should be acknowledged.

**References.** The list of references should include only works that are cited in the text and that have been published or accepted for publication. "Personal communications" or "Unpublished data" should only be mentioned in the text.

If available the Digital Object Identifier (DOI) can be added at the end of the reference in question.

Example:

Ward J, Robinson PJ (2004) How to detect hepatocellular carcinoma in cirrhosis. *Eur Radiol* 14 : 29–36. DOI 10.1007/s00330-004-1450-y

A paper published online but not yet in print can be cited using the DOI :

Ward J, Robinson PJ (2004) How to detect hepatocellular carcinoma in cirrhosis. *Eur Radiol* DOI 10.1007/s00330-004-1450-y

References should be *numbered in the order in which they appear* in the text and *listed in numerical order*. Journal titles should be abbreviated according to CASSI (Chemical Abstracts Service Source Index). References with correct punctuation should be styled as follows:

#### Journal articles

Turner EM, Miller E, Smith DE (1975) Temperature and Diet Effects on Trout. *J Biol Chem* 250:108-115

#### Books

Mossoba MM, Kramer JKG, Brenna JT, McDonald RE (2006) *Lipid Analysis and Lipidomics: New Techniques and Applications*, AOCS Press Champaign

#### Multiauthor books

McMaster CR, Jackson RJ (2003) *Lipids: cellular glue or are they more than that?* In: Daum G (ed) *Lipid Metabolism and Membrane Biogenesis*, Springer Berlin Heidelberg

#### Patents

Karnofsky GB, Hansotte RJ (1982) Process for Extracting Oleaginous Seed Materials. Particularly Cottonseed with Aqueous Alcohol. U.S. Patent 4,359,417

#### Webpage

National Institute of Health (accessed Jan. 2003) Menopausal Hormone Therapy. <http://www.nih.gov/PHTIndex.htm>

#### Illustrations and Tables

All figures (photographs, graphs, or diagrams) and tables should be cited in the text, and each numbered consecutively throughout. Lowercase letters (a, b, etc.) should be used to identify figure parts. If illustrations are

supplied with uppercase labeling, lowercase letters will still be used in the figure legends and citations.

**Size of figures.** The figures should either match the width of the column (8.6 cm) or be 13.1 cm or 17.6 cm wide. The maximum length is 23.6 cm.

**Figure lettering.** Lettering should be consistent with *Lipids* format, i.e., terms such as *cis*, *trans*, *n*-hexane, *E. coli*, and the like should be italicized; spaces should be used between numerals and dimensions (30 min, not 30min); subscripts or superscripts should be in reduced size; and no blank spaces should be left adjacent to slashes. Mathematical variables should be italicized. Abbreviations in figures should conform to journal style and must be consistent with those used in the text [mL, h, min, s, d, *P* (probability), *g* (gravity), m.p., b.p., °C, kg, g, wt, wt%, vol, ca., vs., mol%].

**Figure legends** must be brief, self-sufficient explanations of the illustrations. The legends should be placed at the end of the text.

Online publication of **color illustrations** is free of charge. For color in the print version, authors will be expected to make a contribution (€ 950, US\$ 1150, plus 19% VAT) toward the extra costs, irrespective of the number of color figures.

**Tables** should have a title and a legend explaining any abbreviation used in that table. Footnotes to tables should be indicated by superscript lowercase letters (or asterisks for significance values and other statistical data). Terms such as “trace amounts” should be defined, and statistical data treatment, if applicable, should be included.

**Structural formulae and schemes** should be prepared carefully. Structures should be numbered in boldface arabic numerals. Within a scheme, the numbering should be done from left to right, line by line, independent of the sequence of mentioning in the text.

#### Equations

Equations should be numbered sequentially by Arabic numbers in parentheses. The words equation and equations should be abbreviated Eq. and Eqs. followed by the number except at the beginning of a sentence.

## 5 Technical instructions for preparing your manuscript

Text and figures must be sent as separate files.

#### Text

1. Use a normal, plain font (e.g., Times Roman) for text. Other style options:
  - for textual emphasis use *italic* types.
  - for special purposes, such as for mathematical vectors, use **boldface** type.
2. Use the automatic page numbering function to number the pages.
3. Do not use field functions.
4. For indents use tab stops or other commands, not the space bar.
5. Use the table functions of your word processing program, not spreadsheets, to make tables.
6. Use the equation editor of your word processing program or MathType for equations.
7. Place any figure legends or tables at the end of the article.
8. Submit all figures as separate files and do not integrate them within the text.

#### Data formats

Springer offers a template that can be used with Word 2000 and higher versions at Springer.com. See: Our services for:

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Text:

Save as:

RTF (Rich Text Format) or Microsoft Word compatible formats

Figures:

EPS or TIFF.

#### Illustrations

The preferred figure formats are EPS for vector graphics exported from a drawing program and TIFF for halftone illustrations. EPS files must always contain a preview in TIFF of the figure. The file name (one file for each figure) should include the figure number. Figure legends should be included in the text at the end and not in the figure file.

- **Scan resolution:** Scanned line drawings should be digitized with a minimum resolution of 1200 dpi relative to the final figure size. For digital halftones, 300 dpi is usually sufficient.
- **Color illustrations:** Store color illustrations as RGB (8 bits per channel) in TIFF format.

- **Vector graphics:** Fonts used in the vector graphics must be embedded. Please do not draw with hairlines. The minimum line width is 0.2 mm (i.e., 0.567 pt) relative to the final size.

## 6 Electronic supplementary material

Electronic supplementary material (ESM) for an article in the journal will be published in SpringerLink provided the material is:

- submitted to the Editor(s) in electronic form together with the paper and is subject to peer review
  - accepted by the journal’s Editor(s)
- ESM may consist of
- information that cannot be printed: animations, video clips, sound recordings
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After acceptance by the journal’s Editor(s), ESM will be published as received from the author in the online version only. Reference will be given in the printed version.

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Authors should make their proof corrections on a printout of the PDF file or use the online correction facilities provided with the proof. They should check that the text is complete and that all figures and tables are included. After online publication, further changes can only be made in the form of an Erratum, which will be hyperlinked to the article. **The author is entitled to formal corrections only. Substantial changes in content, e.g., new results, corrected values, title and authorship are not allowed without the approval of the responsible editor. In such a case please contact the Editorial Office before returning the proofs to the publisher.**

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