

# INSTRUCTIONS TO AUTHORS

## NOTE: Electronic Submission Procedure

IN 2006, CEREAL CHEMISTRY<sup>®</sup> adopted an electronic submission system to speed the handling of manuscripts and allow you to check on the status at any time during the review process. See complete instructions under "Guidelines for Electronic Manuscript Submission."

CEREAL CHEMISTRY<sup>®</sup> is an international journal publishing high-quality, scientific papers reporting significant, recent research. Acceptable research areas include those dealing with biochemistry, biotechnology, products, process, and analytical procedures associated with cereals and other grain crops. Papers may be comprehensive reviews or reports of original investigations that make a definite contribution to existing knowledge. The content must not have been published or accepted for publication elsewhere, and papers must not be under consideration by another journal.

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## GUIDELINES FOR ELECTRONIC MANUSCRIPT SUBMISSION

CEREAL CHEMISTRY<sup>®</sup> now requires that all manuscripts be submitted electronically through an internet service called "Manuscript Central" to be considered for publication. Electronic submission speeds the handling of your manuscript and allows you to monitor the status at any time during the review process.

**Procedure.** Type <http://mc.manuscriptcentral.com/CerealChemistry> in your internet browser to bring up the log-in screen. First-time users must create an account. Follow the on-screen directions to create your account and submit your manuscript. Text files can be in Word, WordPerfect, Rich Text, or most common word processing programs. Figures should be submitted in .tif, .eps, or .jpg format. Detailed instructions are found below.

**Technical problems.** Assistance with technical difficulties in submission is available: 1) click the "Get Help Now" button on your Manuscript Central screen and consult "FAQs" (frequently asked questions); 2) contact ScholarOne, the parent company of Manuscript Central, at ScholarOne Customer Support by phone (+1.434.817.2040 ext. 167), fax (+1.434.817.2020), or E-mail ([Support@ScholarOne.com](mailto:Support@ScholarOne.com)).

Manuscripts will be assigned to an appropriate Associate Editor by the Editor-in-Chief. Authors will be notified of this assignment by E-mail and will be contacted by the Associate Editor when the initial review process is completed. Correspondence with authors will be by E-mail or conventional mail at the discretion of the Associate Editor. After the manuscript has been accepted for publication, the final version of the manuscript you submitted through Manuscript Central will be used for production. Submission implies nonsubmission elsewhere and (if accepted) no publication elsewhere in the same form without consent.

*Authors can facilitate review and processing of their manuscripts by reading this guide carefully and completing the checklist at the end of these Instructions for Authors before they submit their papers.*

An author receiving reviews and editorial recommendations for revision of a manuscript has three months to complete the revision and return the manuscript to the Associate Editor. Suggested revisions that substantially change the author's intent or appear to be in error may be rebutted with a documented explanation in a cover letter when the revised manuscript is returned. Unless authors have permission from the Associate Editor for a brief delay in revision, manuscripts requiring more than three months for revision should be submitted as a new manuscript.

Because of the high cost of preparing and publishing articles in CEREAL CHEMISTRY<sup>®</sup>, payment of page charges is mandatory. Page charges are subject to change without notice. Current charges for members of AACC International are \$300 for articles that are five (5) pages or less in length and an additional \$120 per page for additional pages. Current charges for nonmembers are \$400 for articles that are five (5) pages or less in length and an additional \$150 per page for additional pages. Reprints and PDF files are available to authors at a nominal cost; an order form will be provided and must be returned with the proof. A list of recently accepted manuscripts appears on *AACCnet*. For further information on recently accepted manuscripts, contact the Editorial Office.

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## Editorial Policy

See *AACCnet* (<http://www.aaccnet.org/>).

## Papers

Four types of papers are published:

**Research Articles.** Reports of complete, scientifically sound original research that contribute new knowledge. They must be organized as described under "Text." Papers in a series must be submitted together and, upon acceptance, will be published together. A series should not contain more than two papers.

**Reviews.** Comprehensive reviews of a scientific or applied field should include all important findings and bring together reports from a number of sources. Review articles are invited by the Editorial Board. Alternatively, potential authors considering the preparation of a Review article should contact the Editor-in-Chief to suggest the topic and its scope and provide an outline in the form of major headings and a summary statement.

**Notes.** Notes are brief reports of scientifically sound research of limited scope that contribute new knowledge. They should not be more than 2,000 words or contain more than four figures and tables (in any combination). No abstract is required.

**Rapid Communications** (formerly called *Communications to the Editor*). Rapid communications are brief preliminary reports of new, unexpected findings for which the author wishes to ensure priority of publication. They need not have the formal organization of an article. The manuscripts will be given expedited reviews. The author is responsible for reliability of the information and is expected to publish complete findings in a later report.

## Preparation of Manuscripts for Final Submission

After a manuscript has been accepted for publication, the final version of the manuscript you submitted through Manuscript Central will be used for production. Accepted manuscripts should be submitted for final processing as word processing files, not as pdf files.

## General Instructions

CEREAL CHEMISTRY® uses the SI system (often referred to as International Units) for reporting most units of measurement (see exceptions below). Commonly used empirical units are permissible. The following list may be helpful.

g	gram	min	minute
hL	hectoliter	<i>M</i>	molar
hr	hour	mol	mole
L	liter	<i>N</i>	normal
μL	microliter	%	designate w/v or v/v
μm	micrometer (micron)	sec	second
mL	milliliter		

Report nitrogen rather than protein, or define the nitrogen to protein ratio clearly under “Materials and Methods”.

Crop cultivars must be identified by single quotation marks when first mentioned in the abstract or text, in connection with the full Latin name, e.g., *Medicago sativa* L. ‘Vernal’. Do not use the word *cultivar* and single quotation marks at the same time. After the first use, use the cultivar name alone or preceded by the abbreviation cv. Do not use var., which refers to a botanical variety, not a cultivar.

Do not use daltons (Da) to express molecular weights (which are dimensionless numbers) because they are the ratio of the mass of one molecule of a substance to 1/12 the mass of an atom of carbon-12. Therefore, the proper way to express molecular weights is to state the number in thousands with no unit (e.g., the molecular weight of the protein was 30,000). A dalton is a unit of mass equal to 1/12 the mass of an atom of carbon-12. It is used for particles for which the term “molecular weight” is inappropriate (e.g., “the mass of the ribosome was  $2.6 \times 10^6$  Da”).

The principal references used for editing by AACC International, are “The ACS Style Guide, 2nd Ed.” (American Chemical Society, Sales Office, 1155 Sixteenth St. NW, Washington, DC 20036) and Webster’s Dictionary. In general, follow usage and editorial style as outlined in the ACS Style Guide.

Some specifics not included in the guide are use of lowercase for such items as farinograph unless the exact trade name is used, use of “i” in extensigram and extensigraph unless the exact trade name is used, and use of absorbance (not optical density) in accordance with terminology of the American Optical Society.

Put the manufacturer’s name, city, state or province, and country in parentheses at the first occurrence of trade names, chemical names, or product names, unless these are commonly recognized in all countries. Authors have sole responsibility for the accuracy of trade names. CEREAL CHEMISTRY® does not use trademark or registered symbols in text. We do, however, require that any proprietary names be used as adjectives modifying a common noun so as not to infringe on the rights of the manufacturers.

## Statistics

Describe the statistical design of the experiment. Indicate the validity/reproducibility of results by reasonable approaches, usually the use of replicates and statistical analysis.

## Abbreviations

The following abbreviations may be used without definition. For other abbreviations or acronyms, spell out the word(s) at first use and give the abbreviation in parentheses.

A	absorbance
BU	Brabender unit
db	dry basis
HPLC	high-performance liquid chromatography
i.d.	inside diameter
o.d.	outside diameter
rh	relative humidity
SDS	sodium dodecyl sulfate
PAGE	polyacrylamide gel electrophoresis
wb	wet basis

## Abstract

The abstract must precede the text and briefly summarize major findings and conclusions. Do not use such statements as “Results are discussed.” Abstracts must be 200 words or less and must be only one paragraph.

## Text

Organize reports of original research into introductory information, followed by sections titled “Materials and Methods”, “Results”, “Discussion”, and “Conclusions”. In the introductory material, briefly review important previous publications and state the reasons for the investigation reported. Under Materials and Methods, describe materials used and the details and conditions of experimental procedures with sufficient clarity to permit qualified operators to repeat the work. Results and Discussion may be combined in one section. Statistical evaluations should be presented in the Results section when appropriate. In the Conclusions section, summarize the important and novel aspects of what has been done. The Conclusions section is often used by readers to decide whether they will read the entire article; it should not simply repeat the abstract. Keep the use of subheadings to a minimum and **do not create more than two levels** beyond the section heading.

## Figures

Cite all figures in numeric order, using arabic numerals. Captions should describe the contents and define the abbreviations used so that each illustration is understandable when considered apart from the text. Each illustration should be labeled with the figure number, author name, and manuscript number.

A 1:1 (same-size) reproduction maintains maximum detail in printing. Therefore, if possible, prepare computer images, line drawings, and photographs to fit within the printed area of a page. A page is 9½ in. or 241 mm deep. One-column width is 3½ in. or 88.9 mm; two-column width is 7¼ in. or 184.2 mm. On illustrations for same-size reproduction, numbers and lettering (upper and lowercase) should be in 10 point ( $\approx 1/8$  in.) sans-serif type. Figure designations (1, 2, 3 and A, B, C, etc.) should be in 18 point ( $\approx 1/4$  in.) sans-serif type. The American Chemical Society “ACS Style Guide”, 2nd Ed., contains a detailed discussion of the production and use of figures.

Image resolution must be at least 300 ppi at final printed image size. If the final printed image size is unknown, size the image at a larger than final print size, maintaining at least 300 ppi resolution, and we will downsample the image to fit the final print dimensions (we cannot enlarge a digitized image). Image sizes are 2175 pixels wide for a 2-column image; 975 pixels wide for a 1-column image.

*Digital image file specifications.* Digital files must be saved in .tif, .eps, or .jpg format for IBM PC or in .tiff, .pict, .jpeg, or .eps format for Macintosh. If high-resolution image files cannot be provided in the formats listed above, we are sometimes able to convert image files generated with MS Office programs or images embedded in text documents into the proper format. If you have questions about image files, please contact Patti Ek (pek@scisoc.org).

*Line drawings.* Generate drawings on a computer or have a professional graphic artist prepare them. Affix index marks to ordinates and abscissa. Use the horizontal axis for independent variables. Avoid excessively light type and lines. Show experimental points. Do not extend explanatory wording beyond the width of the graph. Terms and abbreviations on figures must be consistent with the usage in the text. Only solid colors (black and white) or simple patterns (e.g., dots or stripes) should be used in charts. Colors or intermediate shades of gray do not reproduce satisfactorily. Graphs may be returned to authors if these instructions are not followed.

*Photographs.* Provide original computer files of all photos labeled with the figure number, author name, and manuscript number. Submit composite figures in final layout form.

*Color.* Color illustrations may be used if accepted during the review process. A cost quotation will be provided with the galley proofs, and the author or an institutional officer must formally indicate acceptance of the quoted rate before color illustrations are processed.

Cost of color: one page of color containing one figure, \$1,300; each additional page of color containing one figure each, \$600; each additional figure on any one page, \$200.

Authors may also choose to publish color images for the online version only. (The printed version will contain a black and white image and will refer readers to the color image online.) The cost of this “e-Xtra” feature is \$20.00.

### Tables

Cite tables in numeric order in the text. A table should contain enough information to be intelligible without reference to the text. Submit each table on a separate sheet. Tables should fit on one page (maximum 7¼ in. or 184.2 mm wide). Follow the style in CEREAL CHEMISTRY®, i.e., roman numerals in the title and sequential lower-case letters in footnotes. Do not draw or type any vertical rules. Arrange data to facilitate comparisons that readers must make. Limit the number of tables to the minimum that can explain the results. Omit all nonessential information such as laboratory numbers and columns of data that show no significant variation. Tables with only a few values should be written into the text. Do not include data that are not discussed in the text. Round off numbers to significant digits. Keep headings short. Explain abbreviations in footnotes.

### Online Article Enhancements

AACC International offers cost-effective “e-Xtra” options designed to enhance the usefulness of the online versions of articles. As mentioned above, authors may publish figures in color online that appear black and white in the printed version at a cost of \$20 per figure. Also, up to five external links to other approved databases will be provided free of charge (additional links will cost \$5 each). Authors should submit the links along with the text of their manuscript. These optional materials should not be referred to in the text.

### Literature Cited

Indicate any personal communications and other unpublished work parenthetically in text. Indicate all procedures and operations manuals and commercial software versions parenthetically in text. Use the author-year method of citing publications.

### Inquiries and Correspondence

Direct all editorial inquiries to: R. Carl Hoseney, Editor-in-Chief, 852 Church Ave, Manhattan, KS 66502. (Phone: +1.785.537.5199; Fax: +1.785.537.5199; E-mail: [chosenev@scisoc.org](mailto:chosenev@scisoc.org)).

All manuscripts must be submitted electronically through the internet service “Manuscript Central” to be considered for publication. Assistance with technical difficulties in submission is available: 1) click the “Get Help Now” button on your Manuscript Central screen and consult “FAQs” (frequently asked questions); 2) contact ScholarOne, the parent company of Manuscript Central, at ScholarOne Customer Support by telephone (+1.434.817.2040 ext. 167), fax (+1.434.817.2020), or E-mail (Support@ScholarOne.com).

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For example, “Various investigators (Smith 1990, Smith and Jones 1994, Smith et al 1988) have reported similar findings.” In the Literature Cited section, arrange citations in alphabetical order by authors’ surnames.

All works included in Literature Cited *must* be cited in the text. Abbreviate journal names as in the American Chemical Society “Chemical Abstracts Service Source Index [CASSI].” When citing *AACC Methods*, cite only the most recent (10th) edition with method number. When citing nonjournal publications, books, and reports, give name and city of publisher. Supply internet address and name and city of publisher (sponsoring organization) for material appearing online.

Literature Citations apply only to material that has been published. Material should be available from a library or other retrieval source. Program books and similar material that is not retrievable should be cited as “unpublished”. Authors bear sole responsibility for the accuracy and completeness of literature citations.

### Examples:

- AACC International. 2000. Approved Methods of the American Association of Cereal Chemists, 10th Ed. Method xx-xx. The Association: St. Paul, MN.
- Autran, J.-C., Laignelet, B., and Morel, M.-H. 1987. Characterization and quantification of low-molecular-weight glutenins in durum wheats. Pages 266-283 in: Proc. Int. Workshop on Gluten Proteins, 3rd. R. Lasztity and F. Bekes, eds. World Scientific: Singapore.
- CAST. 1989. Mycotoxins: Economic and Health Risks. Rep. No. 116. Council for Agricultural Science and Technology: Ames, IA.
- Fulcher, R. G., and Wong, S. I. 1980. Inside cereals—A fluorescence microchemical view. Pages 1-25 in: Cereals for Food and Beverages. G. E. Inglett and L. Munck, eds. Academic Press: New York.
- Juliano, B. O., Perez, C. M., and Cuevas-Perez, F. 1993. Screening for stable high head rice yields in rough rice. Cereal Chem. 70:650-655.
- O’Brien, C. M., Schober, T., Arendt, E. K. 2002b. Evaluation of the effect of different ingredients on the rheological properties of gluten-free pizza doughs. Abstr. 2002 AACC Annual Meeting. Published online at <http://www.scisoc.org/aacc/meeting/2002/abstracts/>. AACC International: St. Paul, MN.

## Checklist for Papers Submitted to CEREAL CHEMISTRY®

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### Content

- Significance and originality of work are shown.
- Reproducibility of results is illustrated.
- Objectives are clearly stated in introduction.
- Introduction includes a succinct evaluation of the topic, including all relevant literature citations.
- Experimental design and methodology are fully explained.
- Proper and sufficient analyses are conducted (review by qualified statistician before submission is encouraged).
- Discussion relates work to other published material and addresses strengths and weaknesses of research.
- Major conclusions are supported by results from repeated experiments.
- Manuscripts are reviewed critically before submission.

### Format

- Line-numbered paper 8 1/2 × 11 inches, double-spaced (including tables and figures).
- First author name, page number, and CEREAL CHEMISTRY® on the bottom of each page.
- Title does not exceed 100 characters and spaces. Uses a phrase rather than a complete sentence. Avoid starting with “The” or “A”.
- Author name(s), affiliations (author titles optional), and addresses given in footnotes.

- Organization of text. Major sections after the introductory statements are: Materials and Methods, Results, Discussion, and Literature Cited. General techniques and methods are best described in Materials and Methods; brief descriptions of experiments and trials may be given in Results.
- Keep subheadings to a minimum and do not create more than two levels beyond the section heading. Footnotes in text are not permitted.
- Acknowledgments and disclaimers are provided after the text.
- Figures are prepared for same-size reproductions. Consistent style and sizing is used for all figures.

### Supporting material

- Proof of all “in press” citations.
- Copies of personal communication verification.
- Permission granted for copyrighted material.

### Submit all new manuscripts to:

- Manuscript Central at <http://mc.manuscriptcentral.com/CerealChemistry>
  - Current instructions to authors are available on *AACCnet* (<http://www.aaccnet.org>).
  - Final versions submitted through Manuscript Central will be used for production. Accepted manuscripts should be submitted for final production as word processing files, not as pdf files.
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