

INSTRUCTIONS TO AUTHORS

CEREAL CHEMISTRY® 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.

Guidelines for Preparation of Electronic Manuscripts

The editors of CEREAL CHEMISTRY® have initiated an electronic submission and review process to shorten the time between submission and acceptance. We will no longer accept paper copies of manuscripts for the review process. All manuscripts must be submitted in portable document format (PDF) files with text, tables, figure legends, figures, and illustrations contained in one PDF document. Manuscripts submitted in file formats other than PDF will be returned to the authors. The use of PDF files will be limited to the initial submission and review process.

Prepare your text, tables, and figures according to the Instructions to Authors (listed below). Combine all parts of the manuscript in one Word or WordPerfect file in the following order: text, tables, figures and figure captions. Pages should be line numbered within 8.5 × 11 inch images, double-spaced, including tables and figure captions. Figures should be numbered.

Convert your file to PDF format. The easiest way to do this is with Adobe Acrobat software. If you do not currently have the software to create PDF files, you can find information and directions on how to convert your file for free at the following sites: <http://wheel.compose.cs.cmu.edu:8001/cgi-bin/browse/objweb> <http://cpdf.adobe.com/index.pl>

Send your manuscript as an E-mail attachment to the Editorial Office (ipfefer@scisoc.org). All submissions must include a cover letter in the text of the E-mail with the following information:

- Title of article.
- Names, titles, affiliations, and mailing addresses of all authors. Please indicate the corresponding author and include telephone, fax, and e-mail address.
- Names and contact information of suggested reviewers.
- A statement that all authors have reviewed the manuscript and approved its submission to CEREAL CHEMISTRY®
- **All submissions must include a copy, as a PDF file of any unpublished article referred to in the submitted manuscript.**

Authors will be contacted by the Associate Editor assigned to the manuscript when the initial review process is completed. Correspondence with authors will be by E-mail or conventional mail at discretion of the Associate Editor. When preparing final versions of revised manuscripts, the revised manuscripts including publication quality figures should be prepared and forwarded to the Associate Editor as described in "Preparation of Manuscripts for Final Submission." For more information contact:

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Because of the high cost of publishing articles in CEREAL CHEMISTRY, payment of page charges is mandatory. Page charges are subject to change without notice. Current charges are \$300 (for the first five pages) and \$120 for each page, or portion thereof, thereafter for members of the American Association of Cereal Chemists and \$400 (for the first five pages) and \$150 for each page, or portion thereof, thereafter for nonmembers. Reprints 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. However, the author is responsible for reliability of the information and is expected to publish complete findings later in an article.

Preparation of Manuscripts for Final Submission

Accepted manuscripts should be submitted for final processing as an electronic submission through E-mail or on IBM, IBM-compatible, or Apple/ Macintosh personal computer diskette. In either case, a **letter-quality printout of the final revised manuscript** must accompany the file containing the text, tables, and figure captions in separate files, along with original art work.

Submit original figures with the final manuscript. Figures are normally glossy prints of photographs or crisp black and white reproductions (photostats) of line drawings. To submit figures as computer files follow the instructions below.

Image files must be saved as .tif, .eps, or .jpg for IBM PC or .tiff, .pict, .jpeg, or .eps for Macintosh. Files created in Office applications such as Excel or PowerPoint or **embedded** in a document **cannot** be used to produce high-resolution images.

Image resolution must be 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 down sample the image to fit the final print dimensions (**we cannot enlarge a digitized image**). Image sizes as follows: 2175 pixels wide for a 2-column image; 975 pixels wide for a 1-column image.

Because of wide variance in software, scanners, and monitors, CEREAL CHEMISTRY® urges that electronic images be submitted only by authors experienced in electronic image processing. Unusable files may result in delays in publication. If you have questions please contact Patti Ek (pek@scisoc.org).

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	%	percent (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” and thereafter use protein.

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 2.6×10^6 Da”).

The principal references used for editing AACC publications are “The ACS Style Guide, 2nd edition” (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 “j” 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 products names, unless these are commonly used in all countries. Authors have sole responsibility for the accuracy of trade names. CEREAL CHEMISTRY® **does not use trademark or registered symbols. Always use brand names as adjectives only.**

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
K	Kelvin
o.d.	outside diameter
rh	relative humidity
SDS-PAGE	sodium dodecyl sulfate-polyacrylamide gel electrophoresis
wb	wet basis

Statistics

Describe the statistical design of the experiment. Indicate the validity/reproducibility of results by reasonable approaches, usually the use of replication and statistical analysis, although other techniques or approaches may be satisfactory.

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.

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 label for contents and abbreviations so that each illustration is understandable when considered apart from the text. Each illustration should be labeled with the figure number and author’s name on the back. Omit titles from the face of the drawing.

Figures are normally glossy prints of photographs or crisp black and white reproductions (photostats) of line drawings.

A 1:1 (same-size) reproduction maintains maximum detail in printing. Therefore, if possible, prepare 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. Inked, handwritten, or typed labels or other poor quality labeling will not be accepted. The American Chemical Society “ACS Style Guide”, 2nd edition (1997) contains a detailed discussion of the production and use of figures.

Line drawings. Generate drawings on a computer or have a professional graphic artist make them. Affix index marks to ordinates and abscissae. Use the horizontal axis for the independent variable. 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.

Photographs. Send either originals or high-quality photographic copies of each figure, printed on glossy paper. Xerographic copies will not be accepted. Photographs for reproduction (originals) should be the first prints from original negatives and of high quality, printed on glossy paper. Each photograph must be completely labeled, including a magnification bar (if necessary). Dry-transfer numbers, letters, and symbols (black-on-white preferred) should be used to give clear, crisp images. Be sure these are securely in place to prevent numbers and letters from detaching. Limit the number of figures to the minimum that can explain the results. If a composite (containing more than one photograph) is to be used, crop the photographs to show only what is discussed in the text. Items in a composite should be of similar density. For full-column figures (maximum 9½ in. or 241 mm), allow enough space so that the figure caption can be printed below the figure.

Color. Color illustrations may be used if approved by the Editorial Office. A cost quotation will be provided, and the author or an institutional officer must formally indicate acceptance of the quoted rate before processing of color illustrations.

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.

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 upright on one page. One table cannot contain multiple sections.** 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. Use abbreviations if necessary (nonstandard ones can be explained in footnotes).

Literature Cited

Indicate internet addresses, personal communications, and other unpublished work parenthetically in the text. Use the author-year method of citing previous publications. 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 that section *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.

Literature Citations apply only to material that has actually been published. Material should be available from a library or other retrieval source. Readers need title, publisher, and city of publication for most nonjournal material. Program books, poster sessions, and similar material that are not retrievable should be cited as "unpublished". Authors bear sole responsibility for the accuracy and completeness of literature citations.

Examples

- American Association of Cereal Chemists. 2000. Approved Methods of the AACC, 10th ed. Methods 08-01, 26-31, and 44-19, 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.
- 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.

Inquiries and Correspondence

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Checklist for Papers Submitted to CEREAL CHEMISTRY®

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.
- Tables on numbered pages after literature cited section.
- Captions for figures on a separate numbered page follow tables.
- Figures. Each illustration is labeled with the figure number, first author's name, and CEREAL CHEMISTRY®.
- Title. Does not exceed 100 characters and spaces. Includes host, pathogen or disease, and phenomenon, as appropriate. (Do not use both common and scientific names for organisms in the title.)
- Author name(s), affiliations (author titles optional), and addresses given in a separate paragraph.

- Corresponding author name, E-mail address, and Accession numbers (if needed) given before the abstract.
- Abstract. Begins with reference line. Limited to 200 words in one paragraph.
- 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. Subheadings may be used, but avoid excessive fragmentation of the text. Footnotes to the 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

- Cover letter supplying the name of the corresponding author with address, phone number, fax number, and E-mail address. Include a statement that all authors have reviewed the manuscript and approved its submission to CEREAL CHEMISTRY®.
- Cover letter provides names and addresses of potential reviewers or request with justification that certain reviewers not be used.

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