The American Journal of Enology and Viticulture (AJEV) publishes full-length research papers, research notes, literature reviews, and technical briefs on subjects related to enology and viticulture.

Research papers are scientific communications that present a new principle, rigorously test an existing hypothesis, or otherwise provide important novel information to the scientific community. Descriptive studies that are hypothesis generating also fit into this category.

Research notes present data of value to the scientific community. Examples include an extensive compositional study/survey from a single region that would be valuable in a broader examination of fruit or wine quality attributes in different wine-growing areas; an ampelographic study of regional varieties; or an update on research already performed. Research notes must draw a conclusion, may present important but negative results, and are generally no longer than three to five published pages (3,300 words, excluding figures and tables).

Literature reviews synthesize the hypotheses and results within the research area under review and critically compare the published literature.

Technical briefs provide important new information to technical members of the industry, but might not advance the forefront of science in viticulture or enology. Appropriate manuscripts may describe a new assay method, validate or improve upon an existing method, or provide a comparative analysis of the impact of use of different processing methods. Technical briefs are generally no longer than three to five published pages (3,300 words, excluding figures and tables).

Authorship is not limited to members of the American Society for Enology and Viticulture (ASEV); however, non-ASEV members are charged $75.00 per page in the printed version of AJEV. For both members and nonmembers, all articles appearing in the print version of AJEV that run longer than 10 pages are charged $200.00 for each page over this limit.

Submission of Manuscripts

The AJEV has online manuscript submission at http://ajev.edmgr.com. You will be asked to submit online a cover letter together with your manuscript, and you will need to upload, fax, or mail to the Journal office a signed copy of the AJEV Author Agreement, found on both the www.ajevonline.org and http://ajev.edmgr.com sites. Format and organize manuscripts as explained in the Content of Manuscripts section, p. 2.

Review Process

The viticulture and enology editors assign each manuscript to an associate editor. Manuscripts then undergo a two-step review process. Manuscripts are first screened to determine whether they meet AJEV standards of scientific rigor and language. Manuscripts that are largely descriptive, confirmatory, or that otherwise do not present any new information or novel insights will not be accepted.

A manuscript that passes the initial screening is generally sent to two peer reviewers (some articles receive one to three reviews). AJEV has a single-blind review process in that authors are identified to reviewers, but reviewers are not identified to authors. Additional reviewers are consulted as necessary. Reviewer comments and the associate editor’s decision regarding acceptability of the manuscript will be forwarded to the corresponding author by the managing editor. AJEV does its best to return timely reviews, but reviewers and editors do volunteer their time and may often be delayed by academic duties. Authors should be willing to review other submitted manuscripts when requested by AJEV.

The editors reserve the right to edit accepted manuscripts to make them conform with AJEV style and/or to return them to the authors for further clarification. Any revision that has not been submitted within six months following the date of the initial decision notification letter will be considered withdrawn (with pre-notice communicated to the author by the managing editor). If the authors wish for the manuscript to still be considered by AJEV, the manuscript will be required to be resubmitted and undergo a full review process.

Authors of submitted manuscripts should recommend three qualified reviewers who are not members of their institutions and who are not collaborators. Such reviewers are contacted at the discretion of the associate editor. Authors may also note individuals they prefer not to review their manuscripts. Any correspondence from the author should be directed to the managing editor.

Journal Publishing Best Practices

The AJEV does not review or accept articles submitted to or published in other publications, and it is unacceptable for an author to submit manuscripts that describe the same research to more than one journal. AJEV does not accept manuscripts from commercial vendors and suppliers, unless they meet our scientific standards for publication and lack of product promotion. Submitted manuscripts that may overlap previously published material should be accompanied by an electronic version of that published material.

Authorship should be based only on substantial contributions to (1) the conception and design or analysis and interpretation
of data and (2) the drafting of the paper or major revision for important intellectual content. The corresponding author must obtain final approval of the manuscript from all authors. All authors must have agreed to submission of the paper and take public responsibility for defending its content, including acknowledgments and citations, and have agreed that the corresponding author act on their behalf on all matters pertaining to publication. It is the corresponding author’s responsibility to provide all coauthors with a copy of both the submitted and final manuscripts.

All authors must reveal to the editors any conflict of interest in the research, including financial interest and patent ownership or application, any relationship with a funding source, as well as any financial interest in any entities manufacturing, distributing, or selling any products that are noted in the manuscript. In some cases, publication may be contingent on such disclosure, and the editors may recommend general statements regarding such disclosure be added to the acknowledgments section of the manuscript. For all manuscripts, cite all funding sources, institutional and corporate, in the acknowledgments section.

Content of Manuscripts

Format manuscripts for letter-size (8.5 x 11 inch) paper, in Times New Roman font, with numbered pages, and double-spaced lines that are consecutively numbered. There is a Word template for formatting your manuscript, found on http://ajev.edmgr.com and www.ajevonline.org. All manuscripts must follow American-English standards of spelling and scientific notation (see abbreviations at the end of this guide and consult The ACS Style Guide [American Chemical Society] as a reference). A cover letter must accompany the manuscript and state that all authors have contributed to the manuscript, have approved its submission, and that the manuscript is not currently submitted to or in review with another publication. Prepare manuscripts in the following order:

Title. The title must reflect the important aspects of the article as concisely as possible, in no more than 120 characters.

Authorship and byline. List the first and last names of all authors. List the authors’ current addresses and the corresponding author’s email and/or fax number. If an author’s affiliation has changed between the time of submission and publication, please notify the managing editor with the present address details, which will be included on the manuscript.

Acknowledgments. Note the source(s) of funds and materials used to conduct the research and where research was conducted, if applicable, and note any potential or perceived conflicts of interest by any authors. Give personal acknowledgments of assistance and nonauthor contributors.

Abstract. For full research articles, include a one-paragraph abstract of no more than 275 words that clearly states the hypothesis, intent, or purpose of the research, the theoretical or experimental plan used, key findings (without experimental details or data), and major conclusions. Do not cite references, figures, or tables. Limit abstracts for research notes to 200 words.

Interpretable abstract. This abstract must be included with the final accepted manuscript. Its purpose is to explain the research in nonspecialized language to a less scientific audience in approximately 300 words. It should state the question being investigated and then explain how the findings help to answer the questions and the implications the findings may have in a broader scope and for a wider audience.

Key words. Create a list of approximately six key words, selecting from the list that is available online at www.ajevonline.org or at http://ajev.edmgr.com. Author may “write in” up to two key words of their own selection that do not appear on the AJEV key word list, if necessary.

Introduction. Include a background review of the experimental design of your study and the measurement techniques used, citing salient literature. Conclude with the hypothesis involved and/or the purpose of the investigation and how it will address deficiencies in existing knowledge.

Materials and Methods. See the sections Reporting Information, Reporting Winemaking, Reporting Sensory Evaluation, and Reporting Molecular Marker Data in the following pages. Enough detail must be given in Materials and Methods so that others may repeat your work. Identify the number of replications of experimental treatments and the number of times individual experiments were duplicated. For standard methods, cite the corresponding literature; describe in adequate detail those procedures that have not been fully described in cited publications. List model number and sources (vendor name) of equipment and media. Include statistical analysis. Specify conditions or variables whose control influences the experimental results (e.g., use of colored lights or glasses in sensory evaluation).

Results. Report the results of your study here; reserve your interpretation of the results for the discussion section. Present results concisely in the text and any accompanying tables and figures, if necessary. Avoid extensive use of graphs; tables are often more effective. If specific results are given in tables, then it is not necessary to repeat that information in the text (e.g., exact significance values). In short articles, the Results and Discussion sections may be combined.

Discussion. The purpose of this section is to interpret the results in relation to previous literature, to propose explanations for the results observed, and to discuss possible applications. Avoid speculation unsupported by the data obtained.

Conclusion. This final section should specify conclusions concerning the original problem/hypothesis and the information given in the article. Do not simply summarize the article and do not introduce new information or cite literature sources. The conclusion section should communicate the implications of the findings rather than repeat specific results.

Literature Cited (LC). Authors must ensure the accuracy of all references listed in the LC section. In the full-text version of www.ajevonline.org, Internet hyperlinks between the LC and the actual referenced articles will not link if there are errors in the information (author, title, journal title, volume and page numbers). Readers increasingly depend on these hyperlinks, making it imperative that information is accurate and complete. Authors will be charged an extra fee if LC contains excessive errors. If EndNote or a similar reference management program was used to format the references and citations in the manuscript, all field codes (gray shading on LC and in-text citations) must be removed prior to submission.

Most research articles can be limited to 35 salient literature citations (25 to 30 for research notes and technical briefs). The
LC should contain only published, relevant references that are accessible through an information system: journal articles, books, chapters in books, proceedings, bulletins, reports, patents, theses, dissertations, and in-press articles that have a date, volume, and page numbers. Peer-reviewed references are preferred. All references listed in the LC must be cited within the text.

Do not include the following in the LC: unpublished abstracts and oral presentations, unpublished data, personal communications, manuscripts in preparation or submitted for publication, letters, company publications, databases, and software used for analysis; these should be referred to in parentheses in the text (see examples below). For personal communication and unpublished data, obtain permission from the person cited and provide the editors with the written permission. Submit unpublished manuscripts and/or data that are essential to the submitted manuscript together with the manuscript to provide enough background for the reviewers and the handling editor.

The AJEV uses the author and date system for in-text citations. Consult the sample issue of AJEV posted at ajevonline.org and the following examples for the correct format of literature cited. Arrange citations chronologically by date of publication, with the earliest date first. Separate multiple citations with a comma between each citation (example: Wolpert et al. 2004, Harbertson et al. 2012). All authors of an article must be listed in the LC, unless there are over 10 authors (if so, list the first author and “et al.”). In edited works, if there are three or more editors, list the first editor and “et al.”. If a source has no author, list the sponsoring organization or publisher; do not use “Anonymous.”

If more than one work by the same author is cited, list the publications in chronological order; if the year is identical, insert lowercase letters (i.e., a, b, c) after the date according to the order each source is cited in the text. In the text of the paper, reference the source by author and date in parentheses. The correct order of elements in sources is noted in the following. Please note that reference management programs (e.g., EndNote, Mendeley, Reference Manager, etc.) were used, the formatting does not always match AJEV’s style and references may require manual correction. Do not use linked field codes (produced by EndNote and other similar reference management programs). Please ensure field codes have been removed from the manuscript prior to submitting to AJEV. Check formatting of references following building of the PDF in Editorial Manager.

Journal article:
In-text citation: (Kennedy et al. 2006) [for three or more authors, use “et al.” following the senior author’s name]

Book:

Chapter in book:
In-text citation: (Sponholz 1993)

Symposium/meeting proceedings:
In-text citation: (Wample and Wolf 1996)

Thesis:
In-text citation: (Wolpert 1983)

References listed in text. References to unpublished data, personal communication, articles submitted for publication, software, websites, databases, company publications, and unpublished abstracts should be listed in the text in parentheses:

Unpublished data and communications: (A. Reynolds, unpublished data, 2004); (G. Creasy, personal communication, 2004).
Software: “. . . data were analyzed with SAS statistical software (ver. 8.1; SAS Institute, Cary, NC).”
Website: “as found on the ASEV website (www.asev.org).”
Database: “. . . vector sequences were removed by cross-match (www. genome.washington.edu).”

Tables and Figures

Tables. Information presented in a table must be self-explanatory and agree with the text. If only a few values are presented or if the information is simply a list, then place the information in the text rather than in a table. Do not repeat data in the text that are given in a table or figure and make sure tables and figures are not redundant.

Construct tables using your word-processing program, not in Excel or as a fixed object. They must fit within one (3.5 inches or 8.9 cm) or two columns (7.25 inches or 18.4 cm). The table caption should summarize the information in the table without repeating the column headings. Each column must have a brief heading that names the variable being measured and indicates the unit of measure within parentheses, such as (mg/L) and (%). If significance of value is indicated, use a lowercase letter (not superscript). Explain nonstandard abbreviations in footnotes. Designate footnotes with superscript lowercase letters beginning with ‘a’, then ‘b’, then ‘c’. Use the same style for all tables. Cite tables in numeric order in the manuscript.

Figures. Submitted figures must be high quality and ready for publication. Cite all figures in numeric order in the manuscript. Captions must describe the contents so that each illustration is understandable when considered apart from the text. If your artwork is from another source, you will need permission from the copyright holder.

Figure construction: For line graphs and frame graphs, affix index marks to the vertical axis (y axis, or ordinate) and to the horizontal axis (x axis, or abscissa). Use symbols to indicate data points: open circles for the first set of data and filled circles for the second; triangles, open and filled, are next; then squares, open and filled (□). If a graph requires more than...
Authors must report

There are two basic options for submitting electronic figure files to AJEV:

- Place your original files (before being exported or saved as tiff, jpeg, or bitmap images) in Microsoft Word, Excel, or PowerPoint files. AJEV can save these files at the correct resolution and make any corrections needed. (Do not place images that have already been exported or saved as tiff, jpeg, or bitmap images.)
- Export or save figure files as tiff, jpeg, or bitmap images. After being exported, figures are composed of pixels rather than text, lines, and fills. These images cannot be corrected or saved at higher resolutions. When choosing this option, you must be sure to export files with the correct amount of resolution (see below), or dots per inch ( DPI), at the size they will print. A graphic with too low a resolution will appear blurry and pixelated when professionally printed.

Acceptable file types: There are two basic options for submitting electronic figure files to AJEV:

- Place your original files (before being exported or saved as tiff, jpeg, or bitmap images) in Microsoft Word, Excel, or PowerPoint files. AJEV can save these files at the correct resolution and make any corrections needed. (Do not place images that have already been exported or saved as tiff, jpeg, or bitmap images.)
- Export or save figure files as tiff, jpeg, or bitmap images. After being exported, figures are composed of pixels rather than text, lines, and fills. These images cannot be corrected or saved at higher resolutions. When choosing this option, you must be sure to export files with the correct amount of resolution (see below), or dots per inch ( DPI), at the size they will print. A graphic with too low a resolution will appear blurry and pixelated when professionally printed.

Acceptable resolutions for tiff, jpeg, and bitmap images: The minimum requirements for resolutions in figure files are:

- 1200 DPI for monochrome: For images that are purely black and white, such as line graphs.
- 300 DPI for halftones (CMYK/RGB/grayscale): For images containing pictures or areas of gray or color shades only—an image not containing any text labeling or lines.
- 600 DPI for combination of lines or text with halftones: For images containing pictures or areas of gray or color shades and text labeling and/or thin lines.

Saving your images as tiff, jpeg, or bitmap files:

- Crop figures with only a small amount of white space bordering them. (This reduces file size.)

- Use the correct resolution (see previous).
- Select grayscale (for black and white) or CMYK and RGB (for color).
- Select LZW Compression (to reduce file size) and Byte Order: IBM PC.

Unacceptable file types: Internet graphics—graphics downloaded from website pages are usually low-resolution images (usually 72 DPI), which are fine for screen displays, but far below acceptable quality standards for print. Authors will be charged an extra fee if extensive manipulation on tables and/or figures is required.

If you have additional questions, please email the publications coordinator (rosemary@asev.org).

Supplemental data. AJEV is able to publish online supplemental data for some articles. It is intended that the data not be necessary to the understanding of an article, but might be helpful in further consideration or replication of the study. These materials are freely available to all ajevonline.org readers. Authors may be charged a fee for the supplemental file, depending on the file size and editing needs.

Reporting Information

Statistical methods and replications. Authors must report enough details of their experimental design so that the results can be judged for validity and so that previous experiments may serve as a basis for the design of future experiments.

Multiple comparison procedures such as Duncan’s multiple range test are frequently misused. Such misuse may result in incorrect scientific conclusions. Multiple range tests should be used only when the treatment structure is not well understood (for example, studies to compare cultivars). When treatments have a logical structure, significant differences among treatments should be shown using t or F tests.

Field experiments, such as studies on crop yield and yield components that are sensitive to environmental interactions and in which the crop environment is not rigidly controlled or monitored, should be repeated (over time and/or space) to demonstrate that similar results can (or cannot) be obtained in another environmental regime. Perform replicate chemical and sensory evaluations to show reproducibility and consistency, respectively.

Trade names. The trade names of materials and the names of manufacturers or suppliers of special (not reagent grade) materials must be given. In experimentation, identify a chemical compound by its common name (if such name exists) or by the chemical name and structural formula.

Nomenclature. The binomial or trinomial (in italics) must be shown for all biological species when first used in the abstract and in the text (for example, Vitis vinifera). Following citation in Materials and Methods, the generic name may be abbreviated to the initial, except when confusion could arise by reference to other genera with the same initial. A collection number or that of the herbarium from which the cultivated sample was obtained should be given.

For varietal names, the AJEV conforms to spellings listed in the TTB listing of approved grape names for American wines (http://www.gpo.gov/fdsys/pkg/CFR-2011-title27-vol1/xml/
Chemical identification. Papers reporting on flavor constituents should conform to the recommendations made by the International Organization of the Flavor Industry [see J. Agric. Food Chem. 44:10 (1996)]. Any flavoring substance must have its identity confirmed by at least two methods. Otherwise, the identification should be labeled “tentative.” Include at least semi-quantitative data on the concentration of an identified component in the original source. Ranges such as < 1 µg/L, 1 to 10 µg/L, 10 to 100 µg/L, rather than absolute amounts, are acceptable.

Numerals. Spell out all numbers or fractions that begin a sentence. Do not use a dash or hyphen to replace the preposition “to” between numerals (3 to 10°C) within the text; however, a dash or hyphen may be used in tables and figures.

Write out numerals one through nine when referring to general numbers (e.g., three panelists, five sessions, four training systems). Use numbers with all units of measure, and always use decimals, not commas (3.56 mL, not 3,56 mL). Write out and hyphenate simple fractions (for example, two-thirds), but in general use decimals instead of fractions.

Units. Units of measure are treated as collective nouns and take singular verbs (e.g., “2.5 mL bentonite was added to the sample”). The International System of Units (SI) is the only acceptable system, and the solids (l) is preferred to the negative index form (e.g., g/L rather than g L⁻¹). Also observe the following:

- Latitude and longitude: report as (42°31´N; 12°29´E).
- Grape weights: report as grams (g), kilograms (kg), and metric tons (t).
- Wine volume: report as liter (L) or milliliter (mL). Hectoliters are not recommended. Abbreviate liter as a capital L, not lowercase, to avoid confusion with the number 1.
- Wine or juice yield: report as liters per 1000 kg (L/1000 kg) or milliliters per kilogram (mL/kg) (equivalent).
- Parts per million (ppm) and parts per billion (ppb) are not recommended. Use the equivalent milligrams per liter (mg/L) and micrograms per liter (µg/L).

Significant figures. Report analytical data only to the appropriate numbered significant figures for the precision of the assay.

Time and dates. When reporting time, use the 24-hour system (e.g., 0400 hr for 4:00 a.m., 1630 hr for 4:30 p.m.). Report dates as day, month, year (9 Apr 2007).

Abbreviations and symbols. See the accompanying list of abbreviations. Replacement of certain unwieldy chemical names by well-known abbreviations is acceptable (e.g., HPLC, DNA). Standard chemical symbols may be used after an initial definition (Ca, NaOH). With the exception of those standard for international usage (e.g., HPLC, ATP), do not use abbreviations in the title or abstract. The metric system is standard, and SI units are preferred (other units may be placed in parenthesis after the SI). Symbols and abbreviations in figures and tables must also conform to guidelines.

Reporting Winemaking

Winemaking experiments have specific issues that require description to allow reproducibility. While it is understood that some variables cannot be controlled, there are factors that should be reported in each study. If an experiment starts with fresh grapes, then report the following data:

- Local source of grapes
- Variety(ies) (and species if not *vinifera*), clone and root-stock, if known
- Harvest date
- Harvesting method
- History of grapes between harvest and crushing (or analysis), including time delay and temperatures and disease conditions (amount of Botrytis, etc.)
- Crushing and pressing devices with settings
- Yield of juice or wine
- Juice or must samples should be analyzed for components under study in the resulting wine. All samples must be replicated.

For fermentations, include the following:

- Replicate fermentations. At least duplicate, but preferably triplicate, winemaking procedures must be applied. For field trials, retain field replicates as fermentation replicates, rather than pooling grapes from field replicates and creating separate fermentation replicates. Describe techniques used to reduce replicate variability, especially with red musts. Replicate variability should be assessed within the context of the experiment.
- Additions, including amount and time of addition, preparation, and method of mixing. For yeast or bacteria, report source and genus, species, and selection.
- Specify weight of grapes per fermentation lot, fermentation volume, and container type.
- Maceration technique for red musts
- Daily measurements during fermentation: temperatures (separate measure of cap temperature for red musts before maceration) and Brix and, if no inoculation is used, microbiobal populations should be counted at the genus level.
- Analysis of these factors before fermentation: Brix, pH, titratable acid, fermentable nitrogen, and any other variable under investigation.
- Analysis of these factors after fermentation: pH, titratable acidity, ethanol, residual sugar, free and total sulfites, and, depending upon the study, malic and lactic acid, total phenols, absorbance at 420 and 520 nm, and volatile acidity or acetate, and any other variables under study.
- Specify history of grapes between harvest and crushing (or analysis), including time delay and temperatures and disease conditions (amount of Botrytis, etc.)
- Postfermentation storage container size and material and storage temperature
- Vintage dates and dates of experiment and analyses
- Replicate analyses should be conducted and statistical treatment of data reported.

If an experiment starts with finished wine:

- Wines should be analyzed initially for components under study. Describe the sampling technique and the analytical procedures. All samples must be replicated.
- Wine composition: pH, residual sugar, TA, ethanol, and free and total sulfites
- Postfermentation storage container size and material and storage temperature
- Vintage dates and dates of experiment and analyses
- Replicate analyses should be conducted and statistical treatment of data reported.
• Bottling operations or study of bottle closures: visual examination of closures for mechanical defects, and wine must be tested for dissolved oxygen immediately after bottling.

Reporting Sensory Evaluation

Sensory methodology used must demonstrate sound scholarship and meticulous attention to the methodological details expected within the field and be capable of testing what it purports to be testing. All articles reporting a sensory analysis must meet the acceptable analytical standards for this field. In all cases, authors must clearly indicate exactly how the test was conducted, at what temperature the wines were stored, for how long the wines were stored, at what temperature the wines were served to the panelists, what type of glassware was used, how much wine was poured in each glass, how many tests the panelists performed, and how many samples were served per session.

Panelists. Trained panelists or “expert” panelists may not be asked to indicate their liking or the acceptability of the sample(s). Only true consumer panelists can give this type of information. Consumer panelists usually should not be asked to score the intensities of specified sensory attributes. However, there may be isolated situations where this would be acceptable.

Discrimination testing. With discrimination testing (such as paired difference, duo-trio, triangle, two-out-of-five), the objective is to determine whether two samples are perceptibly different. In all cases, except the directional paired difference test, that is the only information the test provides.

The major issue with discrimination tests is ensuring that the test had enough power. (Power is defined as the probability of finding a difference that actually exists.) Power is affected by several factors, but the one that the experimenter usually has control over is the number of panelists evaluating the samples.

If a discrimination test shows that two samples are perceived to be significantly different, then the test had enough power (regardless of the number of panelists).

If a discrimination test shows that two samples are not perceived to be significantly different, then the power issue becomes crucially important and the authors must then indicate the power associated with their test. (This is usually the issue when authors want to show that a new method or variation does not affect the sensory properties of the product—the power of such tests is low when the number of panelists is low.)

Using the directional paired difference test with wines can be problematic. The requirement for this test is that the two samples may only differ in a single sensory attribute: for example, a 1% salt-water solution is less salty than a 2% salt-water solution, but it does not differ in any other sensory modality. However, when real products are used this is often not true; for example, a wine with 2% residual sugar is perceived to be less sweet than one with 4% residual sugar, but the first wine may also be perceived to be more sour than the second. In such cases, the paired directional test should not be used.

Descriptive analysis. When authors use the descriptive analysis techniques to evaluate their samples, there are three major issues. First, unless the panel was trained by or in direct consultation with the Tragon Corp. (Palo Alto, CA), the technique used was not QDA (Quantitative Descriptive Analysis). QDA is a registered trademark of Tragon. The same is true for the FPA (Flavor Profile Analysis), which is trademarked by A.D. Little Company (Boston, MA), and the SDA (Spectrum Descriptive Analysis) of Sensory Spectrum (East Hanover, NJ).

Second, authors typically use variations of the above techniques. They could refer to a variation of the QDA technique as the consensus training method and to variations of the FPA and SDA as ballot training methods. It is also possible to amalgamate the two methodologies as a combination training method.

Third, authors must give explicit information on the following: number of panelists; source of panelists; method of training; length of training; assessment of training; attributes used; reference standards/verbal descriptors used for attributes; number of times each panelist evaluated each sample; number of samples per session; number of sessions; duration of sessions; time between sessions.

Reporting Ampelographic or Molecular Marker Data

The AJEV publishes studies on cultivar ampelography and genetic diversity in *Vitis* and Vitaceae. However, unless they are submitted as Research Notes or present significant phenotypic data, articles must have a broad impact and be of significance to the entire international community. Studies on international collections should strive for comprehensive treatment of a collection, rather than simply address small subsets of cultivars within a collection. For example, a recent article examined the entire Brazilian collection (AJEV 2009, 60:517-524), rather than simply a subset of that collection.

To be considered for review, all submitted manuscripts concerning molecular markers should include the standard set of international markers (VVMD5, VVMD7, VVMD27, VVS2, VrZAG62, VrZAG79). Tables and figures must be limited to significant information only (other data such as allelic fingerprints will be published as supplemental tables or figures with the online published article). When submitting an article, carefully consider whether it should be designated as a full research article or a research note (see description of each on p. 1).

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AJEV ABBREVIATIONS AND SYMBOLS

<table>
<thead>
<tr>
<th>Term</th>
<th>Abbreviation or Symbol</th>
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</thead>
<tbody>
<tr>
<td>absorbance/ absorbance units (in tables and figures)</td>
<td>abs/AU</td>
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<tr>
<td>active ingredient</td>
<td>a.i.</td>
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<td>adenosine 5’ triphosphate (adenosine triphosphate)</td>
<td>ATP</td>
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<td>ampere</td>
<td>A</td>
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<tr>
<td>et alia (Latin: and others)</td>
<td>et al.</td>
</tr>
<tr>
<td>atmosphere (see also standard atmosphere)</td>
<td>atm</td>
</tr>
<tr>
<td>average (abbreviate in tables and equations only)</td>
<td>avg</td>
</tr>
<tr>
<td>boiling point</td>
<td>bp</td>
</tr>
<tr>
<td>Brix (no degree sign)</td>
<td>Brix</td>
</tr>
<tr>
<td>°Celsius</td>
<td>°C</td>
</tr>
<tr>
<td>centigrade</td>
<td>°C</td>
</tr>
<tr>
<td>chemically pure</td>
<td>CP</td>
</tr>
<tr>
<td>coefficient</td>
<td>coeff.</td>
</tr>
<tr>
<td>colony forming unit(s)</td>
<td>cfu</td>
</tr>
<tr>
<td>concentration (in tables and figures)</td>
<td>concn</td>
</tr>
<tr>
<td>constant</td>
<td>const.</td>
</tr>
<tr>
<td>cubic centimeter</td>
<td>cm³</td>
</tr>
<tr>
<td>cultivar (only after specific epithet)</td>
<td>cv.</td>
</tr>
<tr>
<td>day, days</td>
<td>day</td>
</tr>
<tr>
<td>decibel</td>
<td>dB</td>
</tr>
<tr>
<td>degree (angular)</td>
<td>°</td>
</tr>
<tr>
<td>dextro (preceding chemical name)</td>
<td>(d)</td>
</tr>
<tr>
<td>dextrorotatory (preceding chemical name)</td>
<td>(italic) d (+)</td>
</tr>
<tr>
<td>diameter</td>
<td>diam</td>
</tr>
<tr>
<td>dry weight (with unit of measurement)</td>
<td>DW</td>
</tr>
<tr>
<td>electron volt</td>
<td>eV</td>
</tr>
<tr>
<td>equation (reference in text)</td>
<td>(eq)</td>
</tr>
<tr>
<td>equivalent</td>
<td>equiv</td>
</tr>
<tr>
<td>exponential</td>
<td>exp</td>
</tr>
<tr>
<td>for example (in tables and figure captions only)</td>
<td>e.g.</td>
</tr>
<tr>
<td>freezing point</td>
<td>fp</td>
</tr>
<tr>
<td>fresh weight (with unit of measurement)</td>
<td>FW</td>
</tr>
<tr>
<td>gram</td>
<td>g</td>
</tr>
<tr>
<td>gravity (gravitation constant)</td>
<td>(italic) g</td>
</tr>
<tr>
<td>hectare</td>
<td>ha</td>
</tr>
<tr>
<td>hertz</td>
<td>Hz</td>
</tr>
<tr>
<td>high-performance liquid chromatography</td>
<td>HPLC</td>
</tr>
<tr>
<td>hour</td>
<td>hr</td>
</tr>
<tr>
<td>hydrogen ion concentration, negative logarithm of</td>
<td>pH</td>
</tr>
<tr>
<td>infrared</td>
<td>IR</td>
</tr>
<tr>
<td>inhibitor constant</td>
<td>K</td>
</tr>
<tr>
<td>inside diameter</td>
<td>i.d.</td>
</tr>
<tr>
<td>joule</td>
<td>J</td>
</tr>
<tr>
<td>kelvin</td>
<td>°K</td>
</tr>
<tr>
<td>kilo (x 10³)</td>
<td>k</td>
</tr>
<tr>
<td>kilodalton</td>
<td>kDa</td>
</tr>
<tr>
<td>kilogram</td>
<td>kg</td>
</tr>
<tr>
<td>kilometer</td>
<td>km</td>
</tr>
<tr>
<td>kilovolt</td>
<td>kV</td>
</tr>
<tr>
<td>kilowatt</td>
<td>kW</td>
</tr>
<tr>
<td>levo- (preceding chemical name)</td>
<td>(small cap) L</td>
</tr>
<tr>
<td>liter</td>
<td>L</td>
</tr>
<tr>
<td>mass</td>
<td>(italic) m</td>
</tr>
</tbody>
</table>

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mass-to-charge ratio (italic) m/z
mass charge on electron (italic) m/e
maximum max.
mega (x 10^6) M
megapascal MPa
melting point mp
meta- (preceding chemical name) (italic) m
meter m
Michaelis constant K_m
micro (x 10^-6) μ
microequivalent μeq
microgram μg
microliter μL
micrometer (micron) μm
millimeter mm
millimole mmol
millivolt mV
minute (time) min
mitochondrial deoxyribonucleic acid mtDNA
molar (concentration) (italic) M
mole mol
month mo
Nephelos turbidity unit NTU
newton N
nicotinamide adenine dinucleotide NAD
nicotinamide adenine dinucleotide, reduced NADH
nicotinamide adenine dinucleotide phosphate (reduced) NADP
normal (concentration) N
normal (preceding chemical name) n
not significant ns
nuclear magnetic resonance NMR
ohm Ω
ortho- (position; preceding chemical name) (italic) o
outside diameter o.d.
para- (preceding chemical name) (italic) p
parts per billion μg/L
parts per million mg/L
per /
percent %
peta (x 10^15) P
pico (x 10^-12) p
polymerase chain reaction PCR
probability (lowercase italic) p
racemic (optical configuration, a mixture of dextro- and levo-) (preceding chemical name) (small caps) dl
revolutions per minute rpm
second (time) sec
significant at 0.05 level *
significant at 0.01 level **
significant at 0.001 level ***
species (only after generic name) sp., spp.
species nov (only after specific epithet) sp. nov.
specific gravity sp gr
specific heat sp ht
specific volume sp vol
square sq
standard atmosphere atm
standard deviation SD
standard error SE
substrate constant (see Michaelis) (italic) K_s
surface tension N/m
tangent tan
temperature temp
tera (x 10^12) T
that is (in tables and figure captions only) i.e.
tonne (metric ton) t
ultraviolet UV
varietas (variety; only after specific epithet) var.
versus (only in tables and figures; spell out in text) vs
volt V
volume V
volume ratio (volume per volume) v/v
watt W
week wk
weight wt
weight per volume w/v
weight ratio (weight per weight) w/w
year yr