

Statistical Applications in Genetics and Molecular Biology

INSTRUCTIONS FOR AUTHORS

Aims and scope

Statistical Applications in Genetics and Molecular Biology seeks to publish significant research on the application of statistical ideas to problems arising from computational biology. The focus of the papers should be on the relevant statistical issues but should contain a succinct description of the relevant biological problem being considered. The range of topics is wide and includes topics such as linkage mapping, association studies, gene regulatory networks, protein structure prediction, high-throughput data analysis, molecular evolution and phylogenetic trees, multi-omics data integration, as well as genetic and epigenetic data modelling. The journal publishes *Original Research Articles*, *Review Articles*, *Software Application Notes*, and *Book Reviews*. Before submitting *Review Articles* please contact the Editor-in-Chief to discuss remit and content of the proposed review.

Manuscript preparation

- Manuscripts should be prepared and submitted as LaTeX, Word, docx, or rtf file
- For peer reviewing purposes a PDF version of the complete manuscript must be provided as a reference file
- Articles must be written in clear and concise English. Authors who are not fully fluent in idiomatic English should have the text proofread by an English native speaker before submission. At the proof stage, only minor changes other than corrections of printers' errors are allowed.
- Only use Unicode fonts (e.g. Times New Roman, Arial). Set the font color to black for the main text.
- Use the following document structure:
 1. Title page with authors' institutional affiliations and a short title for the running head of not more than 60 characters (spaces inclusive). Indicate the corresponding author with an asterisk at the name (*) and provide the e-mail address
 2. Abstract containing 200 words or less. The abstract must be followed by a list of 3 to 6 keywords
 3. Introduction
 4. Subsequent sections including headings/subheadings, with a clear indication of the heading hierarchy; Acknowledgements
 5. Appendices (if applicable) with explanation of symbols mentioned in the text
 6. References - include a proper bibliography following the guidelines in the References section below.
 7. Please supply Tables and Figures also as separate files (if embedded in the main text)
 8. Pages should be numbered (with the title page as 1) and have margins of 2.5 cm (1 inch) on all sides. Footnotes in the text should be avoided in favor of parentheses.
 9. For *Software Application Notes* the maximum page length is 4 typeset pages. For *Book Reviews* the maximum page length is 2 pages.

LaTeX template

For authors working with LaTeX files, a template and instructions for working with the files can be downloaded from the following URL:

https://www.degruyter.com/fileasset/craft/media/doc/authors/DG_LaTeX-Template.zip

Abbreviations and units

The use of abbreviations and acronyms is permitted provided they are defined the first time they are used. Please use only SI units in the text.

Tables, Figures & Graphs

- Only Figures (graphs, line drawings, photographs, etc) should be labeled as ‘Figures’, not Tables or equations.
- Cite all Figures in the text in numerical order. Provide a short descriptive Figure title and a legend/caption to make each figure self-explanatory. Explain all symbols used in the figures. Remember to use the same abbreviations as in the text.
- Please do not embed Figures or Tables in the text. Instead, they should be referenced in the text and submitted in separate files.
- Figures should be submitted as JPG, TIF or EPS file and should have a resolution of at least 300 dpi. De Gruyter encourages authors to take advantage of the ability to use color in the production of Figures, maps, images, and graphs (publication of color figures is provided free of charge). However, please appreciate that this will cause some of your readers problems when they print the document on a black and white printer. For this reason, you are advised to avoid the use of colors in situations where their translation to black and white would render the material illegible or incomprehensible.
- For further information on Figures please see ‘*Instructions for the Delivery of Imagery Data*’
- Number Tables consecutively using Arabic numerals. Provide a short descriptive title, column headings, and (if necessary) footnotes to make each Table self-explanatory. Refer to Tables in the text as Table 1, 2 etc. Use Table 1, etc. in the Table legends. Tables must not be displayed as images.

Mathematics and equations

- Roman letters used in mathematical expressions as variables must be italicized. Roman letters used as part of multi-letter function names should not be italicized. Subscripts and superscripts must be a smaller font size than the main text.
- Type short mathematical expressions inline.
- Longer expressions must appear as display math, as must expressions using many different levels (e.g., such as fractions).
- Ensure that Equations are typed or created with a plug-in, such as the *Word Formula Editor*. Mathematical expressions must not be displayed as images.
- Important definitions or concepts can also be set off as display math.
- Number your equations sequentially.
- Insert a blank line before and after each equation.
- Whether equation numbers are on the right or left is the choice of the author(s). However, make sure to be consistent in this.
- When proofing your document, pay particular attention to the rendering of the mathematics, especially symbols and notation drawn from other-than-standard fonts.

References

References within text:

- Within the text of your manuscript, use the author-date method of citation. For instance, “As noted by Smith (1996).”
- When there are two authors, use both last names. For instance, “Edlin and Reichelstein (1998) claim ...”
- If there are three or more authors give the last name of the first author and append et al. For instance, a 1987 work by Abel, Baker, and Charley, should be cited as “Abel et al. (1987).”

- If two or more cited works share the same authors and dates, use “a,” “b,” and so on to distinguish among them. For instance, “Jones (1994b) provides a more general analysis of the model introduced in Example 3 of Jones (1994a).”
- After the first cite in the text using the author-date method, subsequent cites can use just the last names if that would be unambiguous. For example, “Edlin and Reichelstein (1996)” can be followed by just “Edlin and Reichelstein” provided no other Edlin and Reichelstein article is referenced; if one is, then the date must always be attached.
- When citations appear within parentheses, use commas—rather than parentheses or brackets—to separate the date from the surrounding text. For instance, “... (see Smith, 1996, for an early discussion of this).”

References list:

References must be of the form: Author(s) (Year): title, Journal name (abbreviated if more than one word), volume: page range. For example:

Bertl, J., Ewing, G., Kosiol C., and Futschik., A. (2017). Approximate maximum likelihood estimation for population genetic inference. *Stat. Appl. Genet. Mol. Biol.* 16: 291–312.

Scott, D. W. (1992). *Multivariate density estimation: Theory, practice, and visualization*, Wiley-Interscience.

Please use abbreviations for titles of journals in accordance with those listed in the "World List of Scientific Periodicals" (Butterworth London).

Manuscript submission

Only unpublished material can be accepted, and authors may not republish their paper in the same or similar form. The decision on the acceptance is taken after an external peer-reviewing procedure. There are no page charges.

Manuscripts must be submitted online at the following URL:

<http://mc.manuscriptcentral.com/dgsagmb>

For online submission it is mandatory to suggest possible reviewers for the peer reviewing process. Please indicate the names and address details (including e-mail address) of at least three potential referees who are not from the Editorial Board of the journal.

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