

## INSTRUCTIONS TO AUTHORS

*The Lichenologist* is an international journal and welcomes papers and short communications from contributors anywhere in the world on any aspect of lichenology.

Manuscripts must be original, clearly and precisely presented in English and submitted in triplicate exclusively to the Senior Editor: Dr P. D. Crittenden, School of Biology, University of Nottingham, University Park, Nottingham, NG7 2RD, U.K. A cover sheet should accompany the manuscript including the following information: title and a short running title of not more than 6 words for page headings (not required for Short Communications); name and contact details for the corresponding author (i.e. postal address, telephone and fax numbers, and email address); the total number of pages (text plus references) and numbers of figures and tables. Authors submitting a manuscript do so on the understanding that, if it is accepted, copyright of the paper will be assigned exclusively to the publisher (see Copyright below).

An electronic version of the manuscript must be sent both with the original submission and, after refereeing, with any revised manuscript. A PC compatible disc and Word 97 or more recent format should be used.

**Key words.** Supply 3–6 key words or phrases in addition to those in the title.

**Text.** This must be typewritten on A4 (210×297 mm) or letter (8.5×11 inch) in double spacing with 2.5 cm margins all round. On all points of style concerning text and tables consult recent copies of the journal. Words to be italicized should be either underlined or typed in italics but not both. Complete scientific names (genus, species and authority) must be cited at first mention. Thereafter the generic name may be abbreviated to the initial except at the beginning of a sentence or where the abbreviation might result in confusion with other genera. Recent issues should be consulted for layout of new species, new combinations, synonymy and lists of specimens examined. Examples of style are given below. The spelling of locality names in the British Isles and abroad must follow the most recent editions of maps published by the Ordnance Survey and *The Times Atlas of the World*, respectively.

Examples of style employed in

(a) description of new species:

**Ramalina jamesii Krog sp. nov.**

Thallus saxicola, ascendens vel plus minusve inclinatus . . . etc.

Typus: Portugal, Madeira, Porto Santo, Pico do Facho, 33°05'N, 16°19'W, on acidic rock, 350 m alt., 7 April 1988, *H. Krog & E. Timdal* 6163 (O—holotype; BM, UPS—isotypi).

(b) citation of described species or new combinations:

**Pyrenopsis furfurea (Nyl.) Th. Fr.**

*Bot. Notiser* 1866: 58 (1866); type: Scotland, Ben Lawers, 1864, *Jones* (H-NYL 42916—lectotype; BM—isolectotype).

*Pyrenopsisium terrigenum* (Th. Fr.) Forss., *Nova Acta R. Soc. Scient. Upsal.* ser. 3, 13(6): 81 (1985).—*Pyrenopsis haematopsis* (Sommerf.) *β. terrigena* Th. Fr. in Hellbom, *Öfvers K. Vetens Akad. Forh.* 22(6): 478 (1865); type: Sweden, Lule Lappmark, Skarfi, 1864, *Hellbom* (UPS—holotype).

(c) citation of specimens examined:

Long lists of citations are discouraged. Data should be reproduced as either maps or lists containing only data essential for locating specimens. Complete lists, with the above format, can be deposited with *The Lichenologist* and other appropriate Institutions, and their location noted in the text.

*Selected specimens examined. British Isles: Scotland: V.C.96, Easternness: Abernethy Forest, near Forest Lodge, 38/01.16, on Pinus lignum, 1975, Coppins [2199] & Rose (BM, E).—Germany: Bayern: Allgauer Alpen, 1957, Schoppel & Poelt [Poelt, Lichenes Alpinum no. 56] (H).—Australia: Tasmania: Weindorfers Forest, 41°38'S, 145°56'E, 920 m, 1988, Kantvilas 68/88 (E); Cox Bight, behind west beach, sea-level, 1985, *J. A. Elix* 20945 (ANUC). Victoria: Bellel Creek, c. 1800 m, 5 vi 1983, *M. E. Hale* (HO).*

**Tables.** These must be self-explanatory and each presented on separate pages outside the main text. A short title should be provided with any additional information contained in footnotes. Vertical columns should be separated by spacing; vertical lines must be avoided.

**Figures.** Refer to all drawings, diagrams, graphs and photographs as figures. These should be of the highest quality and suitable for direct reproduction after reduction where appropriate. Each figure should be presented on a separate page. Plan figures to appear within a single column (67 mm) or for reproduction across two columns (139 mm).

*Drawings, diagrams and graphs* should be submitted in black ink on white paper or tracing film at up to twice the size they will finally appear. Preferred symbols for graphs are ●, ○, ■, □, ▲, △; keys to symbols, etc. should be given in figure legends. Tik marks should be placed inside the axes of graphs and half tones should be avoided.

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Subdivisions of figures should be labelled with capital letters, e.g. A, B, C, etc. No letters, arrows, scales, etc. should be done on the original figures; indicate these on overlays or photocopies accompanying each manuscript. All legends for figures should be provided on a separate page to be included with the text of the paper after the references.

Figures in electronic form are preferred. Figures created in vector drawing packages (including Adobe Illustrator, Macromedia Freehand and CorelDraw),

such as graphs, should be saved as EPS files (Encapsulated PostScript) with fonts embedded. Avoid using any 'raster' export facilities that an illustration package might offer (such as 'Export to JPEG' or 'Export to Tiff', as the quality will not be as good. Continuous tone (photographic) colour or mono images should ideally be supplied as tiff files at no less than 300dpi, those containing text will benefit from going up to 500dpi. Colour images ideally supplied in the CMYK colour space – any colour images supplied in the RGB colour space will have to be converted to CMYK by the printer. Images intended for mono reproduction should be supplied as greyscale. Line art should be supplied as 1bit bitmap tiff files at no less than 1000dpi. All resolutions stated are at final size. If the final size is unknown, please enlarge rather than reduce images, enabling reduction at a later stage if necessary. All electronic submissions *must* be on disk and accompanied by high-quality hardcopy.

**References.** Citations in the text should take the form: Green & White (2004) or (Brown 1999*a, b*, 2001; Smith & Jones 1999). Multiple citations should be ordered chronologically. When papers are by three or more authors, give only the name of the first author followed by *et al.* (e.g. Halonen *et al.* 1998) throughout the text. At the end of the text, list the references alphabetically using the following standard forms:

- Scherrer, S. & Honegger, R. (2003) Inter- and intra-specific variation of homologous hydrophobin (*HI*) gene sequences among *Xanthoria* spp. (lichen-forming ascomycetes). *New Phytologist* **158**: 375–389.
- Øvstedal, D. O. & Smith, R. I. L. (2001) *Lichens of Antarctica and South Georgia. A Guide to their Identification and Ecology*. Cambridge: Cambridge University Press.
- Lumbsch, H. T. (2002) Analysis of phenolic products in lichens for identification and taxonomy. In *Protocols in Lichenology: Culturing, Biochemistry, Ecophysiology and Use in Biomonitoring* (I. Kranner, R. P. Beckett & A. K. Varma, eds): 281–295. Berlin: Springer.
- Muggia, L., Schmitt, I., Blaha, J., Rankl, J. & Grube, M. (2006) Evolution of polyketide synthases in lichens. In *Abstracts of the 8th International Mycological Congress, 21–25 August, 2006, Cairns, Australia*, p. 167.
- Murtagh, G. J. (1999) *Sex and variation in lichen-forming fungi*. Ph.D. Thesis, University of Nottingham.

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**Abbreviations, etc.** For guidance on units, symbols, chemical nomenclature and abbreviations consult Instructions to authors for the *The New Phytologist*.

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