

## Instructions for Authors<sup>1)</sup>

### 1. General Policy

*Chemistry & Biodiversity* is an international journal published by *Verlag Helvetica Chimica Acta*, Zurich, Switzerland – a member of the *Wiley* group – in close association with the *Center for the Study of Biological Complexity* (Virginia Commonwealth University, Richmond, USA). The journal publishes full-length articles, short communications, reviews, and commentaries on all aspects of **biologically relevant chemistry** (cf. Table 1).

Table 1. Coverage of Chemistry & Biodiversity by Means of Target Keywords (not restrictive)

Fields	Substance Classes
Biocatalysis	Alkaloids
Biological Chemistry	Antibiotics
Biomaterials	Bioactive Compounds
Biomimetic Reactions	Bioassemblies
Chirality*	Biopolymers
Combinatorial Chemistry*	Carbohydrates
Computational Chemistry*	Flavors and Fragrances
Ecology**	Glycosides
Environmental Chemistry	Hormones
Evolution**	Lipids
Green Chemistry	Membranes
Immunochemistry	Neurotransmitters
Medicinal Chemistry	Nucleosides, Nucleotides, etc.
Metabolic Pathways	Peptides and Amino Acids
Molecular Recognition	Pheromones
Molecular Toxicology	Pollutants
Photochemistry*	Porphyrins
Prebiotic Chemistry	Proteins
Structure/Topology of Biomolecules	Ribozymes
Structure–Activity Relationships	Steroids
Supramolecular Chemistry	Terpenes
	Toxins* (natural or synthetic)
	Vitamins

\* Biorelevant aspects only. \*\* Chemical aspects only.

<sup>1)</sup> Visit also the following internet page: [www.chembiodiv.com](http://www.chembiodiv.com).

A strong chemical focus and proper manuscript preparation (see below) are absolute prerequisites for publication. Articles should be written to meet the interests of readers of both the chemistry and the life-science communities.

## 2. Types of Contributions

*Chemistry & Biodiversity* publishes field-specific and interdisciplinary high-quality contributions on all research fields that straddle the border between the chemical and the biological sciences, with the ultimate goal of broadening our understanding of how nature works at a molecular level. Considered for publication will be submissions on all aspects of biologically relevant chemistry in the form of full-length original papers, reviews, short communications, and commentaries.

**Original research papers** should contain the results of experimental and/or theoretical studies that have not been previously published elsewhere.

**Communications**, like original research papers, should also contain original results, but must be narrowly focused, brief descriptions of research that is sufficiently time-sensitive to warrant rapid communication.

**Reviews** may be either invited or unsolicited, and should contain a critically written discussion of results from studies under a particular topic or group of related topics. Reviews may also provide the readers with an insightful introduction to new and ground-breaking areas of research.

**Commentaries** may contain opinions and/or views covering topics, including controversial ones, that fall under the purview of the journal.

## 3. Submission of Manuscripts

Manuscripts, including full electronic material, are to be submitted in *triplicate*, with a cover letter, **or only electronically** (editor@chembiodiv.ch) as attachment (text and graphic files) to:

Dr. M. Volkan Kisakürek  
Editor-in-Chief  
Chemistry & Biodiversity  
Verlag Helvetica Chimica Acta  
Hofwiesenstrasse 26  
Postfach  
CH-8042 Zurich  
Switzerland

Phone: + 41 44 360 24 34

Fax: + 41 44 360 24 35

Contributions from the USA and Canada can, alternatively, be submitted to the Associate Editor of the Journal:

Prof. Lemont Kier  
Virginia Commonwealth University  
Center for the Study of Biological Complexity  
1000 West Cary Street  
P.O. Box 842030  
Richmond, VA 23284-2030, USA  
e-Mail: [kier@mail2.vcu.edu](mailto:kier@mail2.vcu.edu)

The receipt of the manuscript for consideration will be acknowledged by the Editorial Office, preferably *via* e-mail, and a manuscript reference number will be provided. The reference number must be quoted in all subsequent correspondence. Carefully prepared manuscripts are peer-reviewed and, once accepted, thoroughly edited by professional scientific editors.

Authors should be aware that copyright is automatically transferred to *Verlag Helvetica Chimica Acta (VHCA)* when the manuscript has been accepted. A **Copyright Transfer Agreement** ([www.chembiodiv.com/cta.htm](http://www.chembiodiv.com/cta.htm)), detailing the rights granted to *VHCA*, must be signed by all contributors and sent together with the manuscript to the Editorial Office. If the contribution is not accepted for publication, or if the contribution is subsequently rejected, this agreement shall be null and void. Publication cannot proceed without a signed copy of this agreement.

#### 4. Preparation of Manuscripts

**General.** – Manuscripts must be written in concise, grammatically correct **English**. The text (including references and legends) must be typed **double-spaced** (for manual editing) and printed on white paper. Please leave enough space for corrections (left margin: 4 cm = 1.6"). Please use *Times 12 pt* for text, and *Arial* or *Helvetica* fonts in graphical files (see *Table 2*). **Do not insert any illustrations or tables into the text**, but attach them on separate pages at the end of the manuscript. All manuscript pages, including title page and illustrations, have to be numbered consecutively in the following order:

Title Page – Abstract – Keywords – Introduction – Results and Discussion – Conclusions – Acknowledgement – Experimental Part – References – Tables – Legends – Chemical Formulae – Schemes – Figures – Graphical Illustration (*i.e.*, a formula, a scheme, or a figure for the Table of Contents).

**Title Page.** – The first page includes the manuscript title, the authors' names, affiliations and addresses, and dedications (optional). For layout, please consult a current issue of *Chemistry & Biodiversity*.

The titles should be as informative and short as possible. Do not use abbreviations, chemical formulae, symbols, or references. Use series titles and numbers, if applicable, and footnotes <sup>1)</sup>, <sup>2)</sup>, <sup>3)</sup>, *etc.* to refer to previous papers in the series. State full author names (including full first name and middle initial), using <sup>a)</sup>, <sup>b)</sup>, <sup>c)</sup>, *etc.* to refer to different affiliations, and asterisks (\*) to denote the corresponding author(s). Provide

**full addresses** (street, p.o. box, city, zip code, country), as well as phone/fax number(s) and **e-mail** addresses.

**Abstract.** – On the second page, the purpose, results, and conclusions of your work should be summarized (80 – 200 words). The abstract should be placed between two horizontal lines as upper and lower boundaries. Do not include literature references or illustrations. Reference to structural formulae, *Tables*, *Schemes*, and/or *Figures* is allowed. No abstract is necessary for reviews or commentaries.

**Keywords.** – Keywords are used as entries in the annual subject index and will be published together with the Abstract on <http://wileyonlinelibrary.com/journal/chembiodiv>. Well-chosen keywords will help a reader to find articles of potential interest. Individual keywords should not consist of more than three words. Very general words or phrases (*e.g.*, organic compounds, synthesis, instability, color, *etc.*) are unsuitable as keywords. Preferably not more than five keywords should be provided for a contribution.

**Introduction.** – Here, the status of the latest research of the topic to be discussed should be briefly presented with leading references. The objective of the present work must be pointed out clearly in this context.

**Results and Discussion.** – Present your work in a form that is as interesting and concise as possible. Avoid irrelevant information, technical details, and repetition. You may choose subtitles (*e.g.*, ‘Isolation’, ‘Characterization’, ‘Synthesis’, *etc.*). Specify where to place chemical formulae, *Schemes*, *Figures*, and *Tables*, but do *not* insert them into the text.

**Acknowledgement.** – This section should be kept as brief as possible. Example: ‘*W. H.* thanks the *Swiss National Science Foundation* (Grant No. 2100-063567.011) for generous financial support’.

**Experimental Part<sup>2)</sup>.** – The *Exper. Part* starts with a *General* section, describing abbreviations, reagents, solvents, equipment, techniques, and conditions used.

Specific information concerning structural aspects (*e.g.*, X-ray diffraction or computational methods), purification (affinity chromatography, centrifugation, extraction, *etc.*), or special analytical techniques (bio-assays, staining, blotting, *etc.*) may be described in separate sections.

Compounds that have not yet been described in the literature should be named systematically according to the *IUPAC* rules or the *Index Guides of Chemical Abstracts*. The use of *ACD/Name* (version 12.5) is recommended. Synthesis and/or isolation procedures should be concise, but sufficiently detailed to allow others to reproduce the work (amount of reagents, solvents, temperature, reaction time, purification, yield, *etc.*). Quantities should always be given in parentheses rather than in the running text, *e.g.*:

‘Compound **10** (9.05 g, 25.0 mmol) and  $\text{SOCl}_2$  (1.9 ml, 26.1 mmol) were dissolved in  $\text{CH}_2\text{Cl}_2$  (20 ml) and refluxed for 1 h. After evaporation *in vacuo*, the residue was purified by distillation ( $100^\circ/10^{-2}$  mbar) to afford pure **11** (8.40 g, 90%)’.

New compounds must be thoroughly characterized by at least one of the following methods: multiple NMR ( $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{31}\text{P}$ , 2D, NOE, DEPT, *etc.*), high-resolution mass

<sup>2)</sup> Please consult a current issue of *Chemistry & Biodiversity* for the presentation of experimental details.

spectroscopy, elemental analysis, or X-ray diffraction. The analytical data are presented after the corresponding synthetic procedure in the following order:

m.p./b.p. > TLC > HPLC > GC > EP > ORD > UV/VIS > CD > IR > <sup>1</sup>H-NMR  
> <sup>13</sup>C-NMR (*etc.*) > MS > HR-MS > Elemental Analysis > X-ray ...

SI Units are to be used. For exceptions, see *Appendix IV* of the *Instructions for Authors*<sup>3)</sup> of *Helvetica Chimica Acta*.

**References.** – References must be typed double-spaced and numbered sequentially in the order they appear in the text. The numbers should be set in brackets, *i.e.*, [1], [2], [3–5], *etc.*, and must be collected in numerical order after the *Exper. Part*.

The names of *all* authors must be cited; the use of *et al.* or *ibid.* is **not allowed**. The full last name, preceded by only the initials of the first and middle name(s), of each author is given, followed by the abbreviated journal title (*Chemical Abstracts* convention) in italics, the year (*bold*), the volume number (*italics*), the issue, if required, in parentheses, and the starting page. Books, patents, personal communications, programs, and Ph.D. theses are cited as exemplified below.

Composite references are welcome. The parts are separated by semicolons and indexed only when reference is made to a specific subreference. In the latter case, a), b) c), *etc.*, are used for the assignment. Multiple references in the text are grouped together, *e.g.*, [1] [3–5] [8] (without comma).

**Important:** Descriptions and commentaries, such as ‘for a review, see...’, should not be included in the references, but are restricted to the text or to footnotes.

Examples:

*Journals:*

- [1] D. Lexa, J. M. Savéant, *J. Am. Chem. Soc.* **1976**, 98, 2652.

*Composite references:*

- [2] D. Lexa, J. M. Savéant, *J. Am. Chem. Soc.* **1976**, 98, 2652; K. Kernbauer, O. Müller, G. Müller, *Biochem. Z.* **1962**, 336, 102.

*Books and book chapters:*

- [3] J. M. Pratt, ‘Inorganic Chemistry of Vitamin B12’, Academic Press, New York, London, 1972; C. Kratky, B. Krätler, in ‘Chemistry and Biochemistry of B12’, Ed. R. B. Banerjee, John Wiley & Sons, New York, 1999, p. 9.

*Patents:*

- [4] W. S. Struve, to *DuPont de Nemours*, U.S. Pat. 2,821,529 (*Chem. Abstr.* **1958**, 52, 10215d).

*Personal communications:*

- [5] F. Diederich (Laboratory of Organic Chemistry, ETH Zurich), personal communication, June 2003.

*Computer programs:*

- [6] G. M. Sheldrick, SHELXL97, Program for the Refinement of Crystal Structures, University of Göttingen, Göttingen, 1997.

<sup>3)</sup> Visit the following internet page: [www.helvchimacta.ch](http://www.helvchimacta.ch).

*Ph.D. Theses:*

[7] B. R. Peterson, Ph.D. Thesis, University of California at Los Angeles, 1994.

**Tables.** – Tables should complement and not repeat text or figures. They should be prepared with a table-editing function (*Word*, *Excel*), consist of at least two columns and three rows (or *vice versa*), and contain a short, capitalized title in italics. Units, separated by slash (/) or put in brackets ([...]) must always be defined, either in parentheses in the title, in a table footnote by means of <sup>a</sup>), <sup>b</sup>), <sup>c</sup>), *etc.*, or in the respective column headings. **Each table must be printed out double-spaced on a separate page** and must not be included in the text. Always specify where to insert each table into the running text. For layout, please consult a current issue of *Chemistry & Biodiversity*.

**Legends.** – Titles to *Schemes* (optional) or *Figures* (mandatory), as well as legends to *Schemes* (e.g., reaction conditions), should be printed out double-spaced **on a separate page**. Do not include titles for *Tables* here (see above).

**Illustrations.** – All graphical material (*ChemDraw*, *ISIS/Draw*, *ACD/ChemSketch*, *Photoshop*, *Illustrator*, *etc.*) should be provided both electronically (in the original file format; minimum resolution: **300 dpi**) and as **high-quality** laser printouts (**triplicate**). Slides and sharp photographs are also accepted, but no *Xerox* copies. *Essential* color figures are reproduced free of charge. In all other cases, additional costs for color reproductions will be charged to the authors.

For optimal reproduction, illustrations should be provided 140% of the final size, with a maximum width of 18.0 cm (7.2"). We strongly recommend the use of **ChemDraw**, or, if this program is not available, *Isis/Draw* or *ACD/ChemSketch*. In Table 2, optimal preference settings to create chemical structures in *ChemDraw* are listed<sup>4)</sup>.

Table 2. *Settings for Chemical Structures in ChemDraw*

Preference Settings	Specifications
Page setup	100%
Fixed length	17 pt
Chain angle	120°
Line width	0.6 pt
Bold width	2.0 pt
Bond spacing	15% of length
Margin width	2.0 pt
Hash spacing	2.0 pt
Atom labels	<i>Helvetica*</i> 10 pt
Captions	<i>Helvetica*</i> 12 pt
Compound numbers	<i>Helvetica*</i> 12 pt <b>bold</b>

\* *Arial* is also possible.

<sup>4)</sup> For style files and drawing settings, please visit the following internet page: [www.chembiodiv.com/chemicaldrawing.htm](http://www.chembiodiv.com/chemicaldrawing.htm).

Good-quality representations of graphical material are a prerequisite for publication in *Chemistry & Biodiversity*. The following IUPAC Recommendations should be consulted: ‘Graphical Representation of Stereochemical Configuration (Recommendations 2006)’, *Pure Appl. Chem.* **2006**, 78, 1897; ‘Graphical Representation Standards for Chemical Structure Diagrams (IUPAC Recommendations 2008)’, *Pure Appl. Chem.* **2008**, 80, 277. If, after acceptance of a manuscript for publication, further changes in the graphical representations need to be executed by the Editorial staff, the corresponding expenses will be charged to the author(s).

Structure blocks, Schemes, Figures, and the Graphical Abstract must be provided, in this sequence, each on a separately numbered and labeled white sheet. Depicted compounds should be assigned a bold key number (e.g., **17**) or referred to by their systematic or a trivial name. Please note that **chemical-structure blocks are not counted as Figures**. They will be inserted into the text without title or legend.

Italicize symbols of physical quantities, but not their units (e.g., *t*/min or *J* [Hz]). Minus signs (–) must be as long as the crossbar of plus signs (+). Use superscripts (R<sup>1</sup>, R<sup>2</sup>; R, R’, etc.) to indicate varying substituents, and X, Y, Z to denote varying atoms or internal groups in a parent structure. Use subscripts (R<sub>2</sub>, R<sub>3</sub>, etc.) only as multiplying indices. Use Me, Et, Pr, Bu, *t*-Bu (or <sup>t</sup>Bu), *i*-Pr (or <sup>i</sup>Pr), etc. Stereodescriptors such as (*R*), (*S*), (*E*), (*Z*), *cis*, *trans*, *syn*, *anti*, *endo*, *exo* are always in italics. For more assistance on scientific writing, please consult the *ACS Style Guide*, 3rd edn., Eds. A. M. Coghill, L. R. Garson, American Chemical Society, Oxford University Press, Oxford, New York, 2006.

**Footnotes.** – Footnotes should be kept to a minimum. They are marked with <sup>1</sup>), <sup>2</sup>), <sup>3</sup>), etc., and numbered sequentially throughout the manuscript. **Important:** never include footnotes or comments in the Reference section.

**Equations.** – Chemical, physical, or mathematical equations or expressions should be numbered sequentially on the right-hand side by (1), (2), (3), etc.

Example: ‘..., as shown in Eqn. 1’.

$$K = k_{-1} / k_1 \quad (1)$$

**Selected Abbreviations.** – The following common abbreviations should be used. For additional ones, see *Appendix III of the Instructions for Authors*<sup>3</sup>) of *Helvetica Chimica Acta*.

l, ml, µl, nl:	liter, milliliter, microliter, nanoliter, resp.
g, mg, kg:	gram, milligram, kilogram, resp.
M, mM, µM:	molar, millimolar, micromolar, resp.
s, min, h, d:	second, minute, hour, day, resp.
<i>s</i> , <i>d</i> , <i>t</i> , <i>q</i> :	<i>singlet</i> , <i>doublet</i> , <i>triplet</i> , <i>quadruplet</i> , resp.
<i>w</i> , <i>m</i> , <i>s</i> :	weak, medium, strong (IR), resp.

Atom numbering: C(2), H-C(3), CH<sub>2</sub>(6), etc.

**X-Ray Crystal Structures.** – Prior to manuscript submission, full crystallographic data<sup>5)</sup> must be deposited electronically, either with the *Cambridge Crystallographic Data Centre* in the case of organic compounds (*cf.* [www.ccdc.cam.ac.uk](http://www.ccdc.cam.ac.uk)), or macromolecular biological structures with the *Protein Data Bank* (*cf.* [www.rcsb.org/pdb/](http://www.rcsb.org/pdb/)). *CCDC* Reference numbers and *PDB ID* numbers must be cited in the *Exper. Part*. Solved structures are best depicted with displacement ellipsoids. A brief description of the structure (bond lengths, bond angles, conformational preferences, unusual features, *etc.*) can be given in the text. Additional crystallographic information is best provided in the form of a table (*cf. Instructions for Authors*<sup>3)</sup> of *Helvetica Chimica Acta*).

## 5. Proofs and Corrections

Corresponding authors will be provided with PDFs of the galley proof and of the edited manuscript *via* e-mail. Amendments and/or additions must be returned to *Verlag Helvetica Chimica Acta* within 7 days upon receipt of the e-mail. Please use standard correction marks. Authors are solely responsible for making corrections. Changes to the proofs of errors not generated during editing will be charged to the corresponding author(s). A total of 30 reprints will be provided free of charge. Additional reprints and/or a high-resolution PDF may be requested as indicated on the title page of the galley proof.

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<sup>5)</sup> In the CIF format (*cf.* [www.iucr.org/iucr-top/cif/index.html](http://www.iucr.org/iucr-top/cif/index.html)).