

Instructions to Authors

Please read these instructions carefully and follow them strictly. In this way you will help ensure that the review and publication of your paper is as efficient and quick as possible. The editors reserve the right to reject manuscripts that are not in accordance with these instructions.

Scope

Chemical Senses publishes original papers on taste, smell and all aspects of chemoreception. This includes the gross morphology and fine structure of receptors and central chemosensory pathways; the properties of the stimuli and the nature of the chemical–receptor interaction; and the electrical, biochemical and behavioural correlates (both animal and human) of neural response to chemosensory stimuli. An important part of the journal's coverage is also devoted to techniques and specific application and development of new methods for investigating chemoreception and chemosensory structures at the anatomical, biochemical, physiological and psychophysical levels—including techniques for stimulus production and delivery.

Short reports

The Editors welcome short, especially timely contributions reporting new experimental results of unusual interest to the readership. The format of short reports should be the same as that for a full paper in the journal. The manuscript should be no longer than 5 manuscript pages plus 3 illustrations and will be reviewed and published on a fast track.

Letters to the editor

Letters commenting on the scientific content of papers which have been published in *Chemical Senses* are considered for publication. The author(s) of the paper are normally asked to respond to the comments. Letters and responses may be edited before publication. Normal scientific terminology, and *Chemical Senses* citation procedures, should be followed.

Submission of manuscripts

The manuscript (the original and two copies) should be submitted to one of the executive editors.

Dr B. Ache, Whitney Laboratory, University of Florida, 9505 Ocean Shore Blvd, St Augustine, FL 32086, USA.

Dr T.E. Finger, Department of Cell and Structural Biology, University of Colorado Medical School, 420 East 9th Avenue, B-111, Denver, CO 80262, USA.

Prof. K. Kurihara, Faculty of Pharmaceutical Sciences, Hokkaido University, Kita 12, Nishi 6, Kita-ku, Sapporo 060, Japan.

Prof. Dr R.A. Steinbrecht, Max-Planck-Institut für Verhaltensphysiologie, Postfach 1564, 82305 Seewiesen, Germany.

Dr S. Van Toller, Director, Warwick Human Chemoreception Research Group, Department of Psychology, University of Warwick, Coventry CV4 7AL, UK.

Submission of a paper implies that it reports unpublished work and that it is not under consideration for publication elsewhere. If previously published tables, illustrations or more than 200 words of text are to be included, then the copyright holder's written permission must be obtained. Copies of any such permission letters should be enclosed with the paper.

Word-processor disks/diskettes can be used for setting accepted articles. Contributors considering the submission of a disk should refer to the separate information for submission of disks. It is important to note that material submitted to the editors in disk form MUST be accompanied by three hard copies, as above.

Review of manuscripts

Manuscripts submitted are reviewed and those not meeting the journal's scientific standards or other requirements are rejected. Copies of manuscripts accepted for publication are not returned to the authors.

Proofs

Authors are sent page proofs. To avoid delays in publication, proofs should be checked immediately for typographic errors and returned to the typesetters by express (special delivery) post. Essential changes of an extensive nature may be made only by insertion of a Note Added in Proof. Page charges are *not* levied. Authors are, however, charged for extensive changes made in proof and for special items such as colour plates.

Preparation of manuscripts

Manuscripts should be in their final form when they are submitted so that proofs will require only correction of typographical errors.

Section of the manuscript

Regular full-length papers should be divided into the following sequence of headed sections: Abstract (100–200 words), Introduction, Materials and methods (or Experimental), Results (or Observations), Discussion (or Conclusion), Acknowledgements, and References. Short communications should not exceed 2000 words in length, excluding references and figures, and the methods, results and discussion should be presented in a single section. Include a short abstract (30 words) and present the acknowledgements and references as in full-length papers.

General format

Manuscripts should be typed in clear black print on either American quarto or A4 size paper. Use double spacing (space between lines of type not less than 6 mm) throughout the manuscript and leave margins of 25 mm (1 inch) at the top, bottom and sides of each page. Number each page. Please avoid footnotes; use instead, and as sparingly as possible, parenthesis within brackets. Underline only words or letters to appear in italics. Clearly identify unusual or handwritten symbols and Greek letters. Differentiate between the letter O and zero, and the letters I and l and the number 1. Mark the approximate position of each figure and table in the margin.

Corresponding author

The name and address of the author to whom all correspondence is to be addressed should be placed on the title page and identified as:

Correspondence to be sent to: John Smith, Department of Pathology, University of Somewhere, Anytown, USA

Please include the *telephone* and *fax numbers* of the corresponding author. These are for Editorial Office use only and will not appear in the published paper.

Abstract

The first page of the manuscript should begin with the abstract, which should be a concise summary of the paper. Abbreviations and reference citations should be avoided.

References

Authors are responsible for the accuracy of the References. Published articles and those in the press (state the journal which has accepted them) may be included. In the text a reference should be cited by author and date; no more than two authors may be cited per reference; if there are more than two authors use *et al.* In the Reference list *all* authors should be cited. At the end of the manuscript the citations should be typed in alphabetical order, with the authors' names, year, paper title, journal, volume number, inclusive page numbers, and name and address of publisher (for books only). The name of the journal should be abbreviated according to the *World List of Scientific Periodicals*. References should therefore be listed as follows:

Cagan, R.H. and Rhein, L.D. (1980) *Biochemical basis of recognition of taste and olfactory stimuli*. In van der Starre, H. (ed.), *Olfaction and Taste VII*. IRL Press, Oxford, pp. 35–44.

Marshall, D.A. and Moulton, D.G. (1981) *Olfactory sensitivity to α -ionone in humans and dogs*. *Chem. Senses*, 6, 53–61.

van der Starre, H. (ed.) (1980) *Olfaction and Taste VII*. IRL Press, Oxford.

Continued overleaf

Personal communications (J. Smith, personal communication) should be authorized in writing by those involved, and unpublished data should be cited as (unpublished data). Both should be used sparingly.

Tables

Tables should be typed on separate sheets and numbered consecutively with Roman numerals. They should be self-explanatory and include a brief descriptive title. They should be of such a size that they fit easily onto a journal page, the type area of which is 234 (height) × 185 mm (double column width) or 89 mm (single column width). Footnotes to tables indicated by lower-case letters are acceptable, but they should not include extensive experimental details.

An arrow in the text margin should be used to indicate approximately where a table should be inserted in the text.

Illustrations

All illustrations (line drawings and photographs) must be referred to in the text (as Figure 1 etc.) and should be abbreviated to 'Fig. 1' only in the figure legend. Each figure should be on a separate sheet. Write the title of the paper, the name of the first author and the figure number in pencil on the back of each figure. On the back also clearly indicate the top margin of each figure. On the manuscript indicate with an arrow in the margin the most appropriate position for the figure.

Photographs: These should be submitted in the desired final printed size so that reduction can be avoided. The type area of a printed page is 234 (height) × 185 mm (width) and photographs, including their legends, should not exceed this area. A single column is 89 mm wide; a double column is 185 mm wide. Ideally photographs should fit either a single or a double column. Photographs should be of sufficiently high quality with respect to detail, contrast and fineness of grain to withstand the inevitable loss of contrast and detail inherent in the printing process. Please indicate the magnification by a rule on the photograph.

Colour plates: There is a special charge for inclusion of colour plates.

Line drawings: Please provide these as clear, sharp prints, suitable for reproduction as submitted. No additional artwork, redrawing or typesetting will be done. Therefore all labelling should be on the original drawing. Faint and grey shading or stippling will be lost upon reproduction and should be avoided. Where various shadings are used within one figure please ensure that it is easy to differentiate between them. Ensure that the size of the lettering is in proportion with the overall dimensions of the drawing. Ideally, the drawings should be submitted in the desired final printed size to avoid reduction (maximum dimensions 234 × 185 mm including legends) and should fit either single (89 mm) or double column width (185 mm). If submitting line drawings which require reduction, please check that the lettering will be clearly legible after the drawing has been reduced to the size at which it will be printed. After reduction, letters should not be smaller than 2 mm in height.

Revised manuscripts should be returned with three copies of all new figures.

Figure legends: These should be on a separately numbered manuscript sheet and also on the disk. Define all symbols and abbreviations used in the figure. Common abbreviations and others in the preceding text need not be redefined in the legend.

Conventions

In general, the journal follows the conventions of the *CBE Style Manual* (Council of Biology Editors, Bethesda, MD, 1983, 5th edn). Follow *Chemical Abstracts* and its indexes for chemical names. For guidance in the use of biochemical terminology follow the recommendations issued by the IUPAC-IUB Commission on Biochemical Nomenclature, as given in *Biochemical Nomenclature and Related Documents*, published by the Biochemical Society, UK. For enzymes use the recommended name assigned by the IUPAC-IUB Commission on the Biochemical Nomenclature, 1978, as given in *Enzyme Nomenclature*, published by Academic Press, New York, 1980. Where possible, use the recommended SI (Système International) units.

Genotypes should be italicized (underline in typed copy); phenotypes should not be italicized.

Abbreviations

Try to restrict the use of abbreviations to SI symbols and those recommended by the IUPAC-IUB. Abbreviations should be defined in brackets after their first mention in the text. Standard units of measurements and chemical symbols of elements may be used without definition in the body of the paper.

Chemical formulae and mathematical equations

Wherever possible, write mathematical equations and chemical formulae on a single line. Submit complicated chemical structures as artwork.

Keywords

Authors are requested to provide up to five keywords, which will be used in compiling the annual Subject Index.

Human and animal experiments

The editors draw the authors' attention to the *Declaration of Helsinki* and the *Guiding Principles in the Care and Use of Animals* (DHEW Publication, NIH 86-23). These are reproduced in detail in the first issue of each volume. The editors reserve the right not to accept papers unless adherence to the principles embodied in these documents is apparent.

Offprints

The publishers supply 30 offprints free of charge. Offprint order forms are sent out with the proofs, and must be returned to Oxford University Press if extra offprints are required. Late orders submitted after the journal is printed are subject to increased prices.

Copyright

It is a condition of publication in the Journal that authors assign copyright to Oxford University Press. This ensures that requests from third parties to reproduce articles are handled efficiently and consistently and will also allow the article to be as widely disseminated as possible. In assigning copyright, authors may use their own material in publications provided that the Journal is acknowledged as the original place of publication, and Oxford University Press is notified in writing and in advance.

Guide for authors preparing electronic documents

Do

Enter text in the style and order of the journal.

Insert figure captions and tables at the end of the file.

Save any tables, diagrams, figures, graphs or illustrations generated electronically as separate files and not embedded into the text file.

Type references in the correct order and style of the journal.

Type unjustified, without hyphenation, except for compound words.

Type headings in the style of the Journal.

Use the TAB key once for paragraph indents.

Where possible use Times for the text font and Symbol for the Greek and special characters.

Use the word processing formatting features to indicate **Bold**, *Italic*, Greek, Maths, ^{Superscript} and _{Subscript} characters.

Indicate clearly any special characters that you have drawn by hand.

Check the final copy of your paper carefully, as any spelling mistakes and errors will be faithfully translated into the typeset version. In the case of a mismatch between disk and hard copy, the hard copy will be taken as the definitive version.

Indicate on the form overleaf the contents of each file.

Supply three hard copy printouts of the paper.

Do not

Enter carriage returns to obtain spacing between lines, paragraphs, references, etc. The space required is generated automatically by the typesetters.

Use double spaces after each sentence within a paragraph.

Use the automatic page numbering, running titles and footnote features of your word processing program. Number the hard copies by hand at the bottom of the page.

Include any copyright material (e.g. word processor software or operating system files) on the disk.

Disk submittal

After the manuscript has gone through all the review and editing stages, copy the data onto a 3.5 inch High Density disk. The data should be saved in the wordprocessing format and also as RTF (Rich Text Format).

To avoid confusion do not copy any irrelevant files and/or back-up files onto the disk.

Apple Mac users should ensure the disk wastebasket is empty before submitting the disk.

Use the first-named author's name or manuscript number for the disk label and the file name.

To avoid loss or damage in transit ensure that the disk is adequately protected and always keep a copy of the data on your computer and/or back-up disk.

Please note OUP does not intend to return the disk to the originator.

For further information contact:

Journals Department
Academic Journals Production, Oxford University Press
Great Clarendon Street, Oxford OX2 6DP, UK
Telephone: (+44 1865 or 01865) 556767 Telefax: (+44 1865 or 01865) 267773

CONTENTS



Ad Libitum Mixing in a Taste Memory Task: Methodological Issues M. Vanne, P. Laurinen and H. Tuorila	379
Pheromone Deactivation Catalyzed by Receptor Molecules: a Quantitative Kinetic Model K.-E. Kaissling	385
The Addition of CO₂ to Traditional Taste Solutions Alters Taste Quality B.J. Cowart	397
PTC and PROP Behave Differently in Tests of Discrimination from Their Solvents H.D. Lee and M. O'Mahony	403
NaCl-preferring NZB/B1NJ Mice and NaCl-avoiding CBA/J Mice Have Similar Amiloride Inhibition of Chorda Tympani Responses to NaCl Y. Ninomiya, A.A. Bachmanov, A. Yatabe and G.K. Beauchamp	411
Influence of Physical Exercise on Human Preferences for Various Taste Solutions T. Horio and Y. Kawamura	417
Attentional Modulation of Central Odor Processing K. Krauel, B.M. Pause, B. Sojka, P. Schott and R. Ferstl	423
REVIEWS	
Olfactory Memory: the Long and Short of It T.L. White	433
Is There an Inner Nose? D.G. Elmes	443

Contents continued on inside back cover

OXFORD
UNIVERSITY
PRESS