

## YAKUGAKU ZASSHI Instructions for Authors

The Journal will accept original and innovative submissions in English or Japanese from both members and non-members of the Pharmaceutical Society of Japan, on the understanding that the work is unpublished and is not being considered for publication elsewhere.

### TYPES OF MANUSCRIPT

The Journal publishes Reviews (Comprehensive and Short), Regular Articles, Notes, Communications, and Articles. The journal also publishes invited Reviews. Manuscripts in English or Japanese. With the exception of Reviews, manuscripts will be reviewed by two or more members of the editorial board, whose opinions will form the basis of the final decision by the editor. It is recommended that an English check of the manuscript by a competent and knowledgeable native speaker be completed before submission. Only manuscripts that are written in clear and concise English will be accepted for review. For manuscripts whose English is judged by the Pharmaceutical Society of Japan to be of inadequate quality, English editing will be conducted with the cost to be paid by the author(s).

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2) **Invited Reviews:** Reviews are submitted by invitation from the editorial board, and encompass recent important scientific discoveries.

2) **Regular Articles:** New, significant, innovative, and original findings are suitable as Regular Articles.

3) **Notes:** Papers containing new facts and important data derived from incomplete or partial studies may be suitable as a Note. In general, a Note should not exceed 3 printed pages.

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### SUBMISSION GUIDELINES

The manuscript should be submitted as a PDF file using the "Online Submission" section in our Web site (<http://yakushi.pharm.or.jp>).

### MANUSCRIPT PREPARATION

1) **Manuscript Form** A manuscript, including all figures and tables, should be contained in one PDF file. The text should be single-spaced and typed using in Times New Roman or MS Mincho 12 point font on A4-sized paper (297 mm × 210 mm). There are approximately 30 lines per page and there should be a 2.5 cm margin on each side.

(Cover letter)

The cover letter should include information on the corresponding author (the corresponding author's name, affiliation and address, telephone/fax numbers, and e-mail address), and for non-native English speaking authors, the name of the native English speaker or company that checked the manuscript for correct English usage. For contributions from Japan, the corresponding author's name and address should be written in Japanese as well as English. (The cover letter should also be sent as a PDF file.)

1) **Title page** The title page (page 1) should start with the journal name (YAKUGAKU ZASSHI) and the type of manuscript (Review (Comprehensive, Short), Regular Article, Note, *etc.*). This should be followed by the appropriate section for the manuscript (*i.e.* one of the following: Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Medicinal Chemistry, Pharmacognosy, Analytical Chemistry, Biology/Biochemistry, Biopharmacy, Pharmacology, Hygienic Chemistry, Clinical Pharmacy, Pharmacy Education, Pharmaco-informatics, Annals of Pharmacy, Social Pharmacy), the title, name(s) of the author(s) and affiliation(s), and mailing address in English (and Japanese for Japanese authors). For English-language manuscripts, only the name should be in Japanese and English (Japanese nationals only). An asterisk (\*) should be added to the right of the corresponding author's name. Please indicate the corresponding author's e-mail address in the footnote. When there are two or more authors and they belong to more than one affiliation, the connection between each author and his or her affiliation should be indicated by italicized superscripts *a*, *b*, *c*,..... placed after each author's name and before each affiliation.

2) **Summary and Keywords** Page 2 should contain a summary no longer than 250 words as well as 3 to 6 descriptive keywords, listed in decreasing order of importance. The first 3 keywords must be independent, as they will be used in a keyword combination in the index (less than 80 characters).

#### 3) Main Text

The text, acknowledgments, references, figure legends, tables, and figures should be presented in this order. Figures, tables, and charts/diagrams showing chemical structures should be at the end, each on a separate page. All pages should be numbered consecutively.

2) **Figures, Tables, and Charts/Diagrams Showing Chemical Structures** Only one figure, table, or chart/diagram should appear in English on one page of an A4-sized paper (both portrait and landscape paper orientations can be used). Arabic

numbers should be used for all compound numbers, figures, and tables (e.g. Fig. 1 and Table 1). The list of figure legends should appear on a separate page.

**3 Abbreviations** Abbreviations must be spelled out in full at their initial appearance, followed by the abbreviation in parentheses. Thereafter, the abbreviation only may be used.

However, the following need not be defined: ADP (adenosine 5'-diphosphate), AIDS (acquired immunodeficiency syndrome), AMP (adenosine 5'-monophosphate or adenylic acid), ATP (adenosine 5'-triphosphate), cAMP (adenosine 3',5'-cyclic monophosphate), cDNA (complementary DNA), CoA (coenzyme A), DNA (deoxyribonucleic acid), ED<sub>50</sub> (50% effective dose), ESR (electron spin resonance), FAB-MS (fast atom bombardment mass spectrometry), FAD (flavin adenine dinucleotide), GC-MS (gas chromatography-mass spectrometry), GLC (gas-liquid chromatography), GMP (guanosine 5'-monophosphate), HPLC (high-performance liquid chromatography), high-pressure liquid chromatography), IC<sub>50</sub> (inhibitory concentration, 50%), IR (infrared), LC (liquid chromatography), LC/MS (liquid chromatography/mass spectrometry), LD<sub>50</sub> (50% lethal dose), mRNA (messenger RNA), MS (mass spectrum), NMR (nuclear magnetic resonance), P450 (as in cytochrome P450), RNA (ribonucleic acid), TLC (thin-layer chromatography), tRNA (transfer RNA), UV (ultraviolet)

**4 Units** The following units should be used: length (m, cm, mm,  $\mu\text{m}$ , nm, Å), mass (kg, g, mg,  $\mu\text{g}$ , ng, pg, mol, mmol), volume (l, ml,  $\mu\text{l}$ ), time (s, min, h, d), temperature (°C, K), radiation (Bq, Ci, dpm, Gy, rad), and concentration (M, mM, mol/l, mmol/l, mg/ml,  $\mu\text{g}/\text{ml}$ , %, % (v/v), % (w/v), ppm, ppb)

**5 Spectral and Elemental Analysis Data** Please report spectral and elemental analysis data in the following format. <sup>1</sup>H-NMR (CDCl<sub>3</sub>)  $\delta$ : 1.25 (3H, d,  $J=7.0$  Hz), 3.55 (1H, q,  $J=7.0$  Hz), 6.70 (1H, m). <sup>13</sup>C-NMR (CDCl<sub>3</sub>)  $\delta$ : 20.9 (q), 71.5 (d), 169.9. IR (KBr) cm<sup>-1</sup>: 1720, 1050, 910. UV  $\lambda_{\text{max}}$  (EtOH) nm ( $\epsilon$ ): 241 (10860), 288 (9380). UV  $\lambda_{\text{max}}$  (H<sub>2</sub>O) nm ( $\log \epsilon$ ): 280 (3.25). FAB-MS  $m/z$ : 332.1258 (Calcd for C<sub>18</sub>H<sub>20</sub>O<sub>6</sub>: 332.1259). MS  $m/z$ : 332 (M<sup>+</sup>), 180, 168. [ $\alpha$ ]<sub>D</sub><sup>25</sup> -74.5 (c 1.0, MeOH). Anal. Calcd for C<sub>19</sub>H<sub>21</sub>NO<sub>3</sub>: C, 73.29; H, 6.80; N, 4.50. Found: C, 73.30; H, 6.88; N, 4.65.

**6 Nomenclature** The nomenclature used for chemical compounds shall be in accordance with the nomenclature rules formulated by IUPAC. Alternatively, naming may conform to the nomenclature in the index of Chemical Abstracts or the Ring Index.

**7 References and Notes** "References" include articles published in journals, books, on the Internet, and others (technical reports, patents, lectures, etc.). References other than those indicated above should be described in the text. References should be numbered consecutively according to their order of appearance in the text (one Arabic number should be assigned to one reference). An Arabic number followed by a parenthesis should be placed after the last relevant word and all references should be listed in numerical order at the end of the text in the section entitled References and Notes. Abbreviations for Journals should conform to Chemical Abstracts (cf. The ACS Style Guide. A Manual for Authors and Editors).

Examples of references are as follows:

- 1) Okuyama E., Gao L.-H., Yamazaki M., *Yakugaku Zasshi*, **110**, 834–838 (1990).
- 2) Yamazaki M., Maebayashi Y., Iwase N., *Chem. Pharm. Bull.*, **36**, 2075–2078 (1988).
- 3) Keilhauer G., Faissner A., Schachner M., *Nature* (London), **316**, 728–730 (1985).
- 4) Kawai S., Tanaka S., "Encyclopedia of Experimental Chemistry, Vol. 17, Reaction of organic compounds I," ed. by The Chemical Society of Japan, Maruzen Co., Ltd., Tokyo, 1963, pp. 1–243.
- 5) Cruickshank R., Duguid I. P., Marmion B. P., Swain R. H. A., "Medical Microbiology," 12nd ed., Vol. III, Churchill Livingstone, New York, 1975.
- 6) Szejtli J., "Cyclodextrin Technology," ed. by Davis J. E. D., Kluwer Academic, Dordrecht, 1988.
- 7) Tokuda H., Ichiishi E., Onozuka M., Yamaguchi S., "Biology of Nitric Oxide, Part 6," Vol. I Chap. 2, eds. by Moncada S., Tada N., Maeda H., Portland Press, London, 1998, pp. 185–186.
- 8) Brunner A., Greune H., U.S. Patent 1910462 (1933) [*Chem. Abstr.*, **27**, 4092–4096 (1993)]
- 9) Mochizuki M., Inami K., Abstracts of papers, the 119th Annual Meeting of the Pharmaceutical Society of Japan, Tokushima, March 1999, No. 2, p. 79.
- 10) Frömring K.-H., Szejtli J.: <<http://www.bpb.com/>>, PSJ Web, 25 November 1999.

In the list of references in the References section, include the last names and initials of the first and middle names for all authors.

For references appearing in the main text, the last names of the first 2 authors only should be written. For references with 3 or more authors, write the name of the first author followed by *et al* (Example: Jones A. B., *et al*).

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When structure determination by X-ray crystallographic analysis is a central theme of a paper, the data required for registration with the Cambridge Crystallographic Data Centre (CCDC) should be attached as supplementary material. Although this does not apply in cases where crystallographic analysis plays only a supplementary role, crystal data (unit cell parameters, space group, Z density) and R-factor should still be noted. Atomic coordinates will be printed when the structure is important. Bond lengths and angles, thermal parameters, and torsion angles will be printed when they are important for the issues addressed in the paper. When papers have been accepted, the authors are advised to register the data with CCDC.

## NUCLEOTIDE SEQUENCES

Newly reported nucleotide sequences must be deposited in one of the data banks (either DDBJ, GenBank, or EMBL) and an accession number must be obtained before the paper will be accepted by the Associate Editor's office. Access to the information in the database must be available at the time of publication. A footnote will be included in the paper indicating that such a deposit has been made.

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2 Manuscripts describing animal experiments should be conducted in accordance with the experimental animal guidelines of the institution as well as the appropriate government guidelines, such as those published by the Japanese Ministry of Education, Culture, Sports, Science and Technology. Only manuscripts of experiments conducted in accordance with the appropriate guidelines will be eligible for publication. Finally, please state clearly within the manuscript which guidelines were followed and that the study was indeed conducted in accordance with the guidelines.

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