(January 1, 2019)

Biological and Pharmaceutical Bulletin
Instructions for Authors

The journal Biological and Pharmaceutical Bulletin aims to advance pharmaceutical sciences worldwide and will accept original, innovative submissions in English from both members and nonmembers of the Pharmaceutical Society of Japan. The submissions should be previously unpublished and not being considered for publication elsewhere. All listed authors must agree with the contents of the paper and give their consent for its submission.

Only manuscripts written in clear, concise English will be accepted for review. Authors who are not native English speakers should note that only manuscripts checked and edited by a native English speaker with sufficient scientific knowledge will be accepted. English judged to be inadequate by the Editorial Board will be edited at the authors' expense before publication.

In studies including results on natural products (NP) and/or crude extract materials (CEM) from NP, a complete description and information on the sources of the NP/CEM, extraction methods for the CEM, *etc*. should be provided upon submission. (More details can be found in Guidelines for NP/CEM on our website.) Even if a CEM is prepared from a NP in accordance with a Traditional Herbal Medicine formula, including a Kampo or Traditional Chinese Medicine formula, you still must prepare your manuscript within the realm of the guidelines.

Ⅰ. TYPES OF MANUSCRIPT

The Journal publishes Reviews, Communications, Regular Articles, and Notes.

1. Reviews:

(1) Regular Reviews: Reviewing scientific discoveries including the recent results of the author(s).

(2) Invited Reviews: Submitted by invitation from the Editorial Board, and encompass recent important scientific discoveries.

2. Communications: Communications should contain new and important information that would be of interest to readers of the Journal, making urgent publication is desirable. An explanatory statement is required for urgent publication. In general, a Communication should not exceed 2000 words (approximately 4 printed pages).

3. Regular Articles: The manuscript being submitted must consist of original research performed by the authors and the research must include new information that is of significance.

4. 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 2000 words (approximately 4 printed pages).

Ⅱ. MANUSCRIPT PREPARATION

1. 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).

As for Communications, please indicate in the cover letter the reason why the manuscript should be treated as a Communication.

2. Manuscript The text, figures, and tables should be submitted as three separate files or one file. These are automatically incorporated into a single PDF that the system creates for review. Please use Times New Roman font in 12-point size for Word files. All files should have a page setup for A4-sized (210 mm wide × 297 mm high) paper when printed. Tables can be displayed horizontally if necessary.

(1) Title page The title page (page 1) should start with the journal name (*Biol. Pharm. Bull*.) and type of manuscript (Communication, Regular Article, *etc*.). This should be followed by the title, name(s) of the author(s), affiliation(s), and mailing address(es). Please indicate the corresponding author's e-mail address in the footnote. An asterisk (*) should be added to the right of the corresponding author's name. Use a dagger (†) to the right of a name to indicate that the present affiliation of an author is different to that of when the paper was written. In the footnotes, show the author's current affiliation and address.

(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 (within 80 characters). Abbreviations should not be used as keywords.

(3) Main text The text, acknowledgments, conflict of interest, and references should be presented in this order.

3. Graphical Abstracts The graphical abstract, which authors must supply at the time the manuscript is first submitted, is presented in the Table of Contents so that readers can grasp the outline of the manuscript at a glance. Graphical abstracts should consist of carefully drawn figures (images, charts, graphs, chemical structures, or other informative illustrations) that show the most striking feature of the article in a pictorial form. Appropriate text may be included in the illustration. The illustration should be no larger than 100 mm wide × 40 mm high. The use of color to enhance the value and quality of the graphic is encouraged since they will be printed in color.

4. Supplementary materials If an article has some supplementary materials, the author(s) should state it between Conflict of Interest and References: "The online version of this article contains supplementary materials."

5. Additional information for review Other data necessary for review may be submitted as additional information. Additional information will not be published in the journal.

Ⅲ. MANUSCRIPT FORM

1. Affiliations 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.

Examples for describing affiliations and mailing addresses:

[a] *Department of Molecular Biology, Graduate School of Pharmaceutical Sciences, Hokkaido University; Kita 12, Nishi 6, Kita-ku,*

Sapporo 060–0812, Japan: [b] Biomedical Research Institute, National Institute of Advanced Industrial Science and Technology (AIST); Central 6, 1–1–1 Higashi, Tsukuba, Ibaraki 350–8566, Japan: and [c] Department of Pharmaceutical Services, Hiroshima University Hospital; 1–2–3 Kasumi, Minami-ku, Hiroshima 734–8551, Japan.

2. Abbreviations Abbreviations must be spelled out in full at their initial appearance each in the summary and the main text, followed by the abbreviation in parentheses. Thereafter, the abbreviation only may be used. Please limit to a minimum the use of abbreviations in the title. However, the following need not be defined: ADP (adenosine 5′-diphosphate), AIDS (acquired immunodeficiency syndrome), AMP (adenosine 5′-monophosphate or adenylic acid), ANOVA (analysis of variance), ATP (adenosine 5′-triphosphate), cAMP (adenosine 3′,5′-cyclic monophosphate), cDNA (complementary DNA), CoA (coenzyme A), CYP (cytochrome P450), DNA (deoxyribonucleic acid), ED_{50} (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_{50} (inhibitory concentration, 50%), IR (infrared), LC (liquid chromatography), LC/MS (liquid chromatography/mass spectrometry), LD_{50} (50% lethal dose), mRNA (messenger RNA), MS (mass spectrum), NMR (nuclear magnetic resonance), OTC (over the counter), PCR (polymerase chain reaction), QOL (quality of life), RNA (ribonucleic acid), RT-PCR (reverse transcription polymerase chain reaction), TLC (thin-layer chromatography), tRNA (transfer RNA), UV (ultraviolet), WHO (World Health Organization)

3. Units The following units should be used: length (m, cm, mm, μm, nm, Å), mass (kg, g, mg, μg, ng, pg, mol, mmol, μmol), volume (L, mL, μL), time (s, min, h, d), temperature (°C, K), radiation (Bq, dpm, Gy, Sv), and concentration (M, mM, mol/L, mmol/L, mg/mL, μg/mL, %, % (v/v), % (w/v), ppm, ppb)

4. Spectral and Elemental Analysis Data Please report spectral and elemental analysis data in the following format. ^{1}H-NMR ($CDCl_3$) δ: 1.25 (3H, d, J=7.0 Hz), 3.55 (1H, q, J=7.0 Hz), 6.70 (1H, m). ^{13}C-NMR ($CDCl_3$) δ: 20.9 (q), 71.5 (d), 169.9 (s). IR (KBr) cm^{-1}: 1720, 1050, 910. UV λ_{max} (EtOH) nm (ε): 241 (10860), 288 (9380). UV λ_{max} (H_2O) nm (log ε): 280 (3.25). FAB-MS m/z: 332.1258 (Calcd for $C_{18}H_{20}O_6$: 332.1259). MS m/z: 332 (M^+), 180, 168. $[\alpha]_D^{23}$ −74.5 (c=1.0, MeOH). *Anal.* Calcd for $C_{19}H_{21}NO_3$: C, 73.29; H, 6.80; N, 4.50. Found: C, 73.30; H, 6.88; N, 4.65.

5. 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.

6. 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 the order of citation in the text (one Arabic number should be assigned to each reference or note). An Arabic number followed by a right-hand half-parenthesis should be placed after the last relevant word in the sentence, outside the punctuation mark if any, and all references should be listed in numerical order at the end of the text in the section entitled References and Notes. Journal abbreviations should conform to those listed by PubMed.

Examples of references are as follows:

1) Vasievich EA, Chen W, Huang L. Enantiospecific adjuvant activity of cationic lipid DOTAP in cancer vaccine. *Cancer Immunol. Immunother*., **60**, 629–638 (2011).
2) Shimizu K, Oku N. Brain tumor diagnosis using PET with angiogenic vessel-targeting liposomes. *Tumor of the central nervous system*. (Hayat MA ed.) Vol. 3, Springer, New York, pp. 169–176 (2011).
3) Brunner A, Greune H, U.S. Patent 1910462 (1993) [*Chem. Abstr.*, **27**, 4092–4096 (1993)].
4) International Organization for Standardization. "How we develop standards.": 〈https://www.iso.org/developing-standards.html〉, cited 5 September, 2018.

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 *et al*.).

Ⅳ. X-RAY CRYSTAL STRUCTURE ANALYSES

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.

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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 Editorial Board. 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.

Ⅵ. CONFLICT OF INTEREST

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Ⅶ. ETHICS

1. For manuscripts dealing with scientific investigations involving human subjects and/or human tissues, the experiments should be performed in accordance with the ethical principles for medical research outlined in the Declaration of Helsinki 1964 as modified by subsequent revisions (https://www.wma.net/policies-post/wma-declaration-of-helsinki-ethical-principles-for-medical-research-involving-human-subjects/).

Only studies that have been performed after receiving approval from the appropriate ethics committee of an institution will be accepted for publication. Finally, please clearly state in the manuscript that the study was performed according to institutional guidelines and attach to the cover letter a scanned certificate from the ethics committee.

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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2. Please submit the revised manuscript no later than two months from the date of notification of manuscript revision by the editor. A manuscript that is not revised within two months may be rejected.

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