

Information for Authors (Revised on April, 2024)

1. Manuscripts (Original paper, Commentary or Review) are accepted provided they have not been published previously or concurrently submitted for publication elsewhere. The peer-review process will take about one month, and then the author is notified of the editorial decision with the reviewer's comments. The accepted manuscripts will usually be published within one month from the date of receipt of the final version by the Editor-in-Chief. When revisions are requested prior to final decision, revised papers must be received within 2 months or they will be treated as new submissions.
2. The corresponding author must have obtained permission from all authors for the submission of the manuscript. All authors, members, referees, and editors must disclose any association that poses a Conflict of Interest in connection with the manuscript.
3. Research involving Human and Animal Subjects and Clinical Trials must have been approved by the author's institutional review board. For research using Recombinant DNA, physical and biological containment must conform to guidelines of a corresponding agency. Authors must follow the International Committee of Medical Journal Editors' policy.
4. Errata. BSS publishes corrections for errors, made by the journal or authors, of a scientific nature that do not alter the overall basic results or conclusions of a published article. BSS publishes retractions for major errors that may call into question the source of the data or the validity of the results and conclusions of an article. Errata are published at the discretion of the editors and appear as formal printed and online notices in the journal.
5. Journal charges and licenses: For all papers accepted, an open access fee will be charged as ¥10,000/\$100/€100. BSS does not apply any additional charges, for example, color or excess pages. All articles are licensed under the Creative Commons [Attribution 4.0 International] CC BY 4.0 license.

Guidelines on the submission of manuscripts

1. For the initial submission, the authors must prepare only a single PDF file containing all text, figures, tables, and supplemental information; high-resolution files are not required (less than 10 M bytes).
2. The corresponding author submit the PDF file by email to "atsushi.higashitani.e7*tohoku.ac.jp" (Please replace * with @). In your email, th

subject should be written as "submission to BSS" and the email text for a covering letter contains the following:

- i) Name of one editor suggested by the following issue editors:
 - (Radiation Biology)*
Akihisa Takahashi, Professor of Gunma University, Healy Ion Medical Center
 - (System Biology)*
Masafumi Muratani, Professor of Tsukuba University, Faculty of Medicine
 - (Astrobiology)*
Kensei Kobayashi, Professor Emeritus of Yokohama National University, College of Engineering Science
 - Yoko Kebukawa**, Associate Professor of Tokyo Institute of Technology, Department of Earth and Planetary Sciences
 - (Plant Science)*
Nobuharu Fujii, Associate Professor of Tohoku University, Graduate School of Life Sciences
 - (Space Life Sciences)*
Akira Higashibata, Chief Researcher of Japan Aerospace Exploration Agency, Institute of Space and Astronautical Science
 - (Molecular Biology)*
Atsushi Higashitani, Professor of Tohoku University, Graduate School of Life Sciences
 - ii) The names and addresses of at least two suggested referees.
 - iii) A type of your manuscript (Original paper, Commentary or Review).
3. If the manuscript is a resubmission, a complete list of all changes made, keyed to the comments of the reviewers and editor.
 4. If you do not receive any reply mail within a week, please contact again to "atsushi.higashitani.e7*tohoku.ac.jp " (Please replace * with @).

Formatting guidelines

Title

Titles should: Be concise, around 10-15 words, Avoid the use of jargon and uncommon abbreviations, Capture the broad conceptual significance of the work

Author list

Author first and last names should be spelled out in their entirety (e.g., do not abbreviate "J.H. Watson" unless this is how the author's name always appears). Middle initials are

OK. Please check your co-author names very carefully. After the paper's acceptance, any changes to the author list will require approval of the handling editor and all co-authors; after publication, any changes will additionally require a formal correction notice to alert readers.

Author affiliations and footnotes

Institutional affiliations should be signified with numbered footnotes.

Affiliations should contain the following information at minimum: department(s)/subunit(s), institution, city, state/region (if applicable), and country.

After the institutional affiliations, numbered footnotes may be used to indicate an author's present address, equal contribution, and/or senior authorship.

Correspondence

The full name and the postal address and an e-mail address should be listed of the author(s) who will receive correspondence from the public readers. All corresponding authors should be indicated with an asterisk (*) in the author list.

Abstract

All manuscripts must include a brief but informative Abstract, not exceeding 200 words, intelligible without references to the main text. References to the literature should not be included.

Key words

After the abstract, please include up to 7 keywords with your paper, separated by commas.

Running title

The running title should be 8 words or less (required).

Introduction

Good introductions are succinct, presenting only the background information needed for readers to understand the motivation for the study and the results.

Material and Methods

For any manuscript reporting an experiment/s carried out on (i) live vertebrates (or higher invertebrates), (ii) humans or (iii) human samples please check that the information provided in the methods section is unambiguous using the following requirements (Approval, Accordance, and Informed consent).

Results

This section should be divided with subheadings.

Discussion

The discussion should explain the significance of the results and place them into a broader context. The discussion may contain subheadings and can be combined with the results section.

Acknowledgments

Use this section to acknowledge contributions from non-authors and list funding sources. As this section contains important information and many funding bodies require inclusion of grant numbers here, please check it carefully.

Declaration of interests

This section is required for all papers. Please use it to disclose any competing interests. If there are no interests to declare, please note that with the following wording: "The authors declare no competing interests."

References

The references should be cited in the text written in Harvard style and not numbered, e.g., "Smith et al., 2024; Smith and Jones, 2024." References should be listed in an alphabetical order at the end of the article. Each reference should include: authors name(s), year of publication in parentheses, complete title followed by a period, abbreviated journal title, volume and inclusive page numbers, as follows:

(Note that "et al." should only be used after ten authors.)

Yamanouchi, S., Adachi, T., Yoshida, Y., Rhone, J., Mao, JH., Fujiwara, K., Saganti, PB., Takahashi, A. and Hada, M. (2021) The combined effect of simulated microgravity and radiation on chromosome aberrations in human peripheral blood lymphocytes. *Biol. Sci. Space*, 35, 15-23.

Sievers, A., Buchen, B., Volkmann, D. and Hejnowicz, Z. (1991) Role of the cytoskeleton in gravity perception. In: Lloyd, C.W. (ed) *The Cytoskeletal Basis of Plant Growth and Form*. Academic Press, London, pp 169-182.

Figure legends

Legends should be included in the submitted manuscript as a separate section. Each figure legend should have a brief title that describes the entire figure without citing specific panels, followed by a description of each panel.

Tables

Please use the Microsoft word table function to make tables; you may need to revise any tables that are not created using this function.

Figures

For the initial submission, high-resolution files are not required. The authors must prepare only a single PDF file containing all text, figures, tables, and supplemental information, are not required (less than 10 M bytes).

Supplemental materials

Supplementary materials (Supplementary Figures, Tables, and videos) are peer reviewed as part of the acceptance process for the paper. For large amounts of big data related to

manuscripts, we recommend using the J-STAGE Data site (<https://jstagedata.jst.go.jp/>) and linking each as an independent doi.

After accept the manuscript, submit original text file (MS word file), tables, and figures to “handling issue editor, chief editor, and KOMIYAMA printing company KOPAS”. To avoid wasted while space and clutter ensure that the figure is reasonably sized and laid out. Line drawings must be clear, with high black and white contrast. TIFF files are preferable. Figures should be created in the same size you wish them to be printed in the following resolution:

- i) Line Drawings: higher than 1200 dpi
- ii) Half Tones: higher than 300 dpi
- iii) Single column figures should be less than 85mm wide. Double column figures should be less than 170 mm wide. Appropriately sized numbers, letters and symbols should be used, no smaller than 2 mm in size.

Editorial Board

Editor-in-Chief

HIGASHITANI, Atsushi

Issue Editors

TAKAHASHI, Akihisa

MURATANI, Masafumi

KOBAYASHI, Kensei

KEBUKAWA, Yoko

FUJII, Nobuharu

HIGASHIBATA, Akira

Editors

CHOI, In-Ho (Korea)

DURANTE, Marco (Germany)

KISS, John (U.S.A)

LANDIS, William J. (U.S.A)

LEE, Yoo Kyung (Korea)

NAGAMATSU, Aiko (Japan)

NIKAWA, Takeshi (Japan)

OHIRA, Yoshinobu (Japan)

PARK, Junsoo (Korea)

ROUX, Stanley (U.S.A)

SUN, Yeqing (China)

SZEWCZYK, Nathaniel (UK)

TAKAOKI, Muneo (Japan)

van LOON, Jack (Netherlands)

WU, Honglu (U.S.A)

YAMAGISHI, Akihiko (Japan)