# **Biophysics and Physicobiology (ON-LINE JOURNAL)**

# **INSTRUCTIONS FOR AUTHORS**

*Biophysics and Physicobiology* is the official on-line journal (e-journal) of the Biophysical Society of Japan (BSJ). This journal inherited all the assets of *BIOPHYSICS*, the former BSJ official journal and expanded its scope to keep abreast of the future direction of the field.

Biophysics has covered a broad range of biological and physical issues and BIOPHYSICS has played a role of a research forum for researchers from different backgrounds including physicists, biologists, engineers and so forth. Among the biophysicists, a quantitative consideration for biological issues based on physical and mathematical principles has been the common basis of this forum. Biophysics now spans all scales of biological organization, from the molecular scale to whole organisms and ecosystems, and hence biophysical research demonstrates significant overlaps with biochemistry, physiology, cell biology, nanotechnology, bioengineering, computational biology, systems theoretical biology and so forth, and the field has evidently grown over the first idea in "biophysics". This outgrowth has been realized by the enthusiastic integration of ideas from physicists and biologists on various biological issues. Biophysics and Physicobiology is a forum for the discussion between physicists studying biology and biologists studying physics. By including the term physicobiology in the name of the journal, we intend to widen the scope of the journal to broader range of biologists and further stimulate the exchange of ideas among the biophysicists.

Based on the ideas above, *Biophysics and Physicobiology* widely covers the topics of physiology, molecular and cellular biology, genome biology, systems biology, synthetic biology, bioinformatics, mathematical biology, quantitative biology, photobiology, mechanobiology, thermobiology, neuroscience, behavioral biology, developmental biology, quantum biology, radiobiology, and rising fields of biology under the extreme environments, space life science, nanobiology, and other various fields of biology. These fields can be represented by, but not limited to, the following keywords: protein (structure, function, expression, measurement and analysis); nucleic acid (structure, function, expression, measurement and analysis); genome (structure, function, interaction, measurement and analysis); biological and artificial membrane (structure, function, dynamics, synthesis, excitation and channels, transport); molecular motors; electronic state; hydration and electrolyte; chemoreception; neuronal circuit and information processing; vision and photoreception; photosynthesis; signal transduction; origin of life and evolution; nonequilibrium state; biological rhythm and so forth.

We intend to provide the biophysicists in the Asia-Pacific area the opportunity to publish original research in *Biophysics and Physicobiology*. Scientists from Australia, China, Hong Kong, India, Korea, Singapore, Taiwan, as well as Japan, have been invited to serve as Associate Editors. To make the Asia-Pacific region a world leading center of biophysics, submission of papers is encouraged not only from the Asia-Pacific region, but also from all over the world.

Articles that *Biophysics and Physicobiology* publishes are categorized into (1) Regular Articles, (2) Review Articles, (3) Notes, (4) Experimental Methods and Protocols, (5) Hypotheses and Perspectives, and (6) Databases and Computer Programs.

Regular Articles are the main category of the journal and must be prepared in accordance with the instructions provided below. Review Articles summarize a particular aspect of biophysical research. Most of the Review Articles are invited, but contributed Review Articles are also welcome (please send inquiries with an outline to the Editor-in-Chief before sending the manuscript). Notes are short articles that are not necessarily categorized into Regular Articles because of the content, containing important information on new devices and/or new ideas (comments) that are useful for researchers working in the field of biophysics. Experimental Methods and Protocols cover new methods or significant new advancement of established methods that will be widely applicable to the field of experimental biophysics. Hypotheses and Perspectives should present a novel idea or a new interpretation of the established observations. The goal of this category is to encourage critical evaluation of the concepts, idiosyncratic viewpoints, and challenges to ideas. However, the manuscript should go through rigorous review, and the ideas should be based on sound data without excessive speculation. Databases and Computer Programs should be a description of the core data or software that would be useful for biophysics studies. The databases/computer programs should be available via website designated by the authors or via Biophysics and Physicobiology. The review process of this category is based on the functionality of the database/computer program.

We welcome a proposal of a topic for Special Issue from the members of the Society, the Editorial Board, Associate Editors and Advisory Board. The proposer should contact the Editor-in-Chief directly, and may take on the duty of a Deputy Editor. Note that these special issues are not invited, but all the manuscripts are reviewed and the publication and page charges must be paid. In addition, the proceedings of a scientific meeting can be considered for a special issue publication.

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SM will automatically convert the uploaded files into single PDF and HTML documents so that they can be viewed and printed for peer reviewing. Authors must verify that the PDF file is satisfactory and complete.

If there is any problem with on-line submission, please contact the editorial office below.

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- 1. The text, tables, figures and supplementary materials (if any) in separate electronic files are required for initial submission. The text file should include the title, abstract, text, references and figure legends.
- 2. Figures in resolution high enough for printing. Electronic files of photographs and illustrations in 300 dpi resolution in gray scale or color at the size being printed, and similarly in 1,200 dpi in black and white for line drawings. We accept figure files only in TIFF, EPS or JPEG format.
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#### **Manuscript Style**

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- [8] Komatsu, H., Hayashi, F., Sasa, M., Shikata, K., Yamaguchi, S., Namba, K., *et al.* Genetic analysis of revertants isolated from the rod-fragile fliF mutant of Salmonella. *Biophys. Physicobiol.* **13**, 13–25 (2016).
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*Biophysics and Physicobiology* policy requires that all authors should reveal any financial interests or connections, direct or indirect, or other situations that might raise the question of bias in the reported work. The following is an example of the statement;

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For example,

A.B., C.D., and E.F. directed the entire project and co-wrote the manuscript. I.J. synthesized and characterized materials. K.L. carried out diffractometry analyses. M.N. performed NMR measurements. O.P.Q. and R.S. carried out *ab initio* calculations.

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Revised 30th, October, 2017.