**Biophysics and Physicobiology**

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***Method and Protocol***

**Title (Times New Roman, 16 point and left-justified. Only the first character of the Title is capitalized except proper names)**

First name Last name1, First name Last name2, First name Last name2,3 (Times New Roman, 12 point and left-justified. Please do not insert “and” just before the last author name.)

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**Input Abstract here (Times New Roman, 10 point/Bold, no more than 250 words). The first line of every paragraph must be indented, and the both ends should be justified. Abstract may not contain the positive words: “New”, “Novel”, “First”, “Unprecedented”, or other similar descriptive words, and their adjectives……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….…………….…………………………………………………………………………………………………………………………….…………………………………………………….…………………………………………………………………...……………………………………………………………………………………………………………………………………….….……………………………………………**

**Key words:** Up to five keywords are selected (10 point/ not Bold, separate comma with each word. The first character of each word should not be capitalized except a proper name.)

Please fill in "Significance" in this area. A short statement no more than 100 words about the significance. Please adjust the margins by text length, and use the font, Times New Roman, 10 point. The both ends should be justified. This Significance statement will also be published on the web site of the Biophysical Society of Japan.

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**Introduction (Main section names are in Times New Roman, 10 point/Bold. Leave each blank line at top and bottom.)**

The text is written in Times New Roman, 10 point with the line spacing to be single spaced. The first line of every paragraph must be indented, and the both ends should be justified.

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When the macromolecular structures are referred, please describe [PDB ID: <PDB ID>] in the text, and set hyperlink to [https://doi.org/10.2210/pdb<PDBI ID>/pdb](https://doi.org/10.2210/pdb%3cPDBI%20ID%3e/pdb) as follows (e.g., [PDB ID: [6qw9](https://doi.org/10.2210/pdb6qw9/pdb)]).

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**Materials and methods (Only the first character of the section name except proper names should be capitalized.)**

**Subsection (When Subsections are used, their names are in Times New Roman, 10 point/Bold, and a blank line is left at top. Only the first character of the subsection name except proper names should be capitalized.)**

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**Results**

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When equations are used with the “Equation tools”, each of them is indented with a line spacing above and below. The equation numbers are written in the parentheses as follows:

(1)

(2)

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All figures must be cited in the text. Number the figures consecutively with Arabic numerals (for example "Figure 3"), in the order of appearance in the text. Title of the Supplementary material should be, for example, "Supplementary Text S1", “Supplementary Table S1", and "Supplementary Figure S1".

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**Table 1** Table contents and the caption are written with the font of Times New Roman, 10 point using a Text-box. The both ends should be justified

|  |  |  |
| --- | --- | --- |
| Column1 | Column21) | Column3 |
| 1 | abs | xyz |
| 2 | def | uvw |
| 3 | ghi | st |

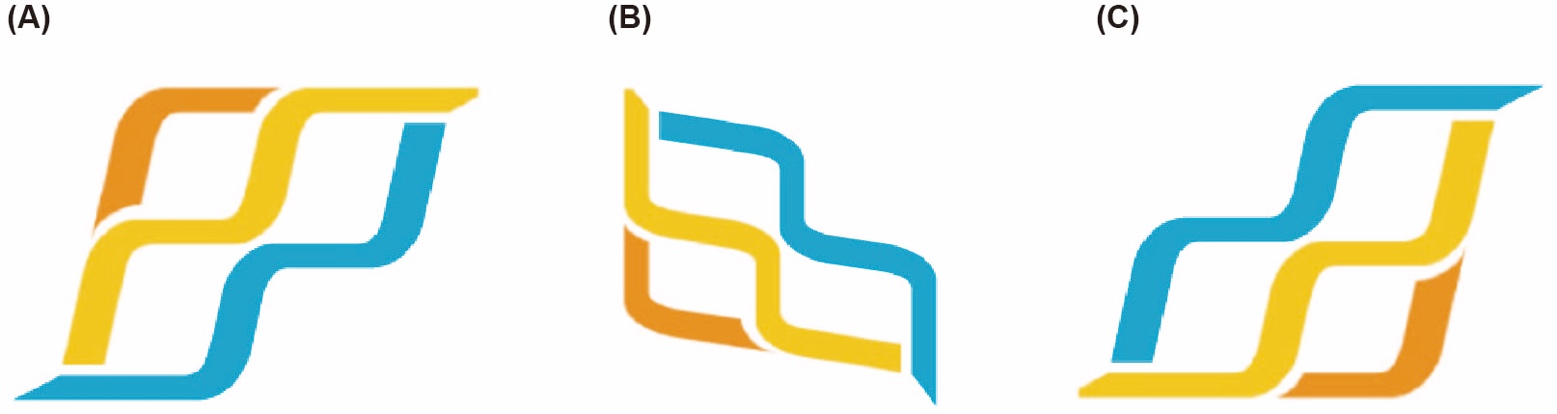
1) Foot notes for the Table contents can be shown here.

**Figure 1** Color and monochrome figures in TIFF, JPEG or PNG format in 300 dpi resolution should be pasted. Figure caption is written with the font of Times New Roman 10 point using a Text-box below each figure. The both ends should be justified.



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**Figure 2** A large figure or several panels identified by (A), (B), etc. can be displayed.



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**Table 2**  A large Table can be displayed using a long Textbox as follows

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Column1 | Column2 | Column3 | Column4 | Column5 | Column6 | Column7 |
| 1 | a1 | b1 | c1 | d1 | e1 | f1 |
| 2 | a2 | b2 | c2 | d2 | e2 | f2 |

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**Discussion**

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**Conclusion**

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**Conflict of interest**

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**Author contributions**

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**Data availability**

The evidence data generated and/or analyzed during the current study are available from the corresponding author on reasonable request. In addition, the authors are encouraged to include supporting digital data for all graphs, tables, and similar contents as Supplementary Materials and/or on J-STAGE Data.

Coordinates, structure factors and its validation report of protein X were deposited to the Protein Data Bank under the PDBID: <PDB ID> with the DOI of https://doi.org/10.2210/pdb<PDB ID>/pdb.

The trajectory and a series of snapshots for the current molecular simulation study were deposited to BSM-Arc with the DOI of https://doi.org/10.51093/bsm-xxxx

Quantitative biological data and microscopy images analyzed in this study were deposited to SSBD (https://ssbd.riken.jp/database/).

The original raw data that support the findings of the current study are available in J-STAGE Data with the DOI of https://doi.org/10.34600/data.biophysico.xxxx

A preliminary version of this work, DOI: xxxxxxxxxxx, was deposited in the bioRxiv (or arXiv, ChemRxiv, etc.) on Month Date, Year. (This sentence is only necessary for the authors, who have submitted the manuscripts to preprint servers.)

**Acknowledgements**

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**References**

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<https://www.biophys.jp/biophysics_and_physicobiology03.html>.

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    2. Only the first character of the Title of the article is capitalized except proper names.
    3. Journal name and Volume number are written in normal font, not in italic or bold font. The abbreviated Journal titles follow the Index Medicus/MEDLINE format, which can be found at NLM Catalog: Journals referenced in the NCBI Database, <https://www.ncbi.nlm.nih.gov/nlmcatalog/journals/>
    4. (Example for a journal article with less than seven authors) Harada, Y., Funatsu, T., Murakami, K., Nonoyama, Y., Ishihama, A., Yanagida, T. Single-molecule imaging of RNA polymerase-DNA interactions in real time. Biophys. J. 76, 709–715 (1999). <https://doi.org/10.1016/S0006-3495(99)77237-1>
    5. (Example for a journal article with more than six authors, listing the first six authors followed by “et al.”) 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). <https://doi.org/10.2142/biophysico.13.0_13>
    6. (Example for a chapter in an edited book) Go, M. Protein structures and split genes. in Adv. Biophys. (Kotani, M. ed.) vol. 19, pp. 91–131 (Japan Sci. Soc. Press and Elsevier Sci. Pub., Tokyo and Limerick, 1985).
    7. (Example for a book by one or more authors) Oosawa, F., Asakura, S. Thermodynamics of the Polymerization of Proteins (Academic Press, New York, 1975).
    8. (Example for an article in a preprint server) Ichimura, T., Kakizuka, T., Horikawa, K., Seiriki, K., Kasai, A., Hashimoto, H., et al. Exploring rare cellular activity in more than one million cells by a trans-scale-scope. bioRxiv (2020). <https://doi.org/10.1101/2020.06.29.179044>
    9. (Example for a journal article in press) Itoh, H., Takahashi, A., Adachi, K., Noji, H., Yasuda, R., Yoshida, M., et al. Mechanically driven ATP synthesis by F1-ATPase. Nature (in press). <https://doi.org/10.1038/nature02212>