

# Biophysical Journal

## Call for Papers

## Special Issue: Applications of Coarse-Grained and Multiscale Modeling

**Editors:** *Ragothaman M. Yennamalli, SASTRA Deemed to be University, India*  
*Florence Tama, Nagoya University, Japan*

*Biophysical Journal* will publish a special issue titled "Applications of Coarse-Grained and Multiscale Modeling" that will focus on the latest advances in computational methods to understand biomolecular dynamics and their function. The issue will feature progress in the area of coarse-grained (CG) and multiscale modeling coupled with rapidly changing artificial intelligence (AI)-driven tools and techniques. The Journal welcomes submissions reporting on original research, including on applications and tools, as well as invited reviews and perspectives in the following topical areas:

- Shape- or structure-based CG modeling,
- Data- or knowledge-based CG modeling,
- Energy- or physics-based CG modeling,
- Force-fields for CG and multiscale modeling, and
- Use of AI/machine learning for CG and multiscale modeling.

The Journal aims to publish the highest-quality work with applications including, but not limited to, human health, material science, agriculture, and other allied areas. In addition, cell-scale, multiscale models that involve CG models as part of the modeling are welcome as well. Articles for submission should have sufficient importance to be of general interest to biophysicists regardless of their research specialty.

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**Deadline for submission: March 31, 2025**

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If you are interested in contributing or have questions about the special issue, please contact Ragothaman M. Yennamalli ([ragothaman@scbt.sastra.edu](mailto:ragothaman@scbt.sastra.edu)) or Florence Tama ([florence.tama.y5@f.mail.nagoya-u.ac.jp](mailto:florence.tama.y5@f.mail.nagoya-u.ac.jp)).

- Instructions for authors can be found at: <https://www.cell.com/biophysj/authors>
- Please include a cover letter stating that you would like to contribute to the Applications of Coarse-Grained and Multiscale Modeling special issue and please describe why the work fits into the issue.
- All accepted articles will undergo a normal peer review process to ensure scientific quality and impact and will appear online as soon as accepted, even if submitted early.
- Normal publishing charges will apply.
- Questions can be addressed to the BJ Editorial Office at [BJ@biophysics.org](mailto:BJ@biophysics.org) or to +1 (240) 290-5600.



To submit, visit <https://www.editorialmanager.com/biophysical-journal/>