

Special Issue

Developing Biophysical Tools

Message from the Guest Editors

This Special Issue on “Developing Biophysical Tools” will bring the most recent advances of *in silico*, *in vitro*, and *in vivo* methods to a broad audience, with a focus on three main aspects: Firstly, understanding which biological questions might be addressed with novel tools; secondly, new ideas on how to enhance traditional methods or develop entirely new ones; and thirdly, how to combine methods and tools from different disciplines. The latter point is particularly important to gain a holistic insight into the complex world of biological interactions. Topics include but are not limited to:

- Developing methods and analyses of molecular dynamics simulations;
- Spatiotemporal modeling and simulations;
- Statistical physics applied to experimental phenomena (transport, phase changes etc.);
- Multicorrelative, experimental approaches (microscopy + AFM, microscopy + microfluidics, etc.);
- Novel sensor designs (tension, pH, Voltage);
- Acquiring dynamic information from static structural information.

Guest Editors

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Deadline for manuscript submissions

closed (15 December 2021)



Processes

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Impact Factor 2.8
CiteScore 5.5



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