

The Biophysicist

An Open Access Journal on Biophysics Education

Special Issue Call for Papers:

Emergent phenomena in biophysics—curricular connections; pedagogical approaches; theoretical, lab and computer teaching materials; epistemological attitudes of teachers and students; educational research studies

Deadline for submissions: September 1, 2022

Emergence refers to systems of many components (molecules, cells, or organisms) whose collective behavior is governed by their interactions so that the “whole is greater than the sum of its parts.” How this occurs and its importance in biophysics are areas of current research, often not covered in textbooks. Articles in educational journals such as *The Biophysicist* are an important resource that can provide instructors at many levels with curricular settings, pedagogical approaches, new teaching materials, and case studies using research-based assessment of how to understand and teach students how “more is different.” Timely examples include active assembly and break-up of biological macromolecules, ion channel cooperativity, and liquid-liquid and liquid-solid phase separation (e.g., intrinsically disordered proteins, chromatin, and RNA), as well as the techniques used in experimentation including advanced spectroscopy, microscopy and microrheology techniques, and flow and elasticity of cell assemblies.

- Information for Authors can be found at <https://meridian.allenpress.com/DocumentLibrary/BISO/TBP-Revised-Author-Guidelines.docx>.
- Please include a cover letter indicating that your submission is for consideration for the “Emergent phenomena in biophysics” Special Issue.
- Normal publishing charges will apply.
- Questions can be addressed to *The Biophysicist* Editorial Office at thebiophysicist@biophysics.org or to Samuel Safran at sam.safran@weizmann.ac.il.
- Publication is planned for early 2023.



To submit, visit <https://thebiophysicist.msubmit.net/cgi-bin/main.plex>