

Biophysical Journal Call for Papers

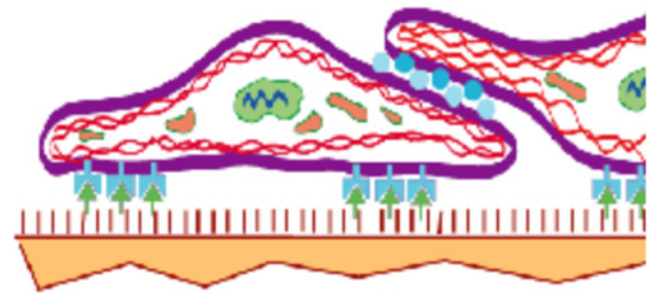


Special Issue: Mechanics and Thermodynamics of the Living Cell, Dedicated to Erich Sackmann

Editors: *Andreas Bausch, Rudolf Merkel, Joachim Rädler, and Alexandra Zidovska*

Biophysical Journal extends an invitation for contributions to a special issue dedicated to Erich Sackmann, who was a trailblazer in the field of cell biophysics. Sackmann, Professor Emeritus of Excellence in the Department of Physics at the Technical University Munich in Germany, passed away in May 2024 at the age of 89.

Erich Sackmann was a pioneer of biological physics, inspiring generations of students and researchers worldwide. His research focused on the mechanics and thermodynamics of the living cell, ranging from the physics of cell membranes, cell adhesion, and the cytoskeleton to the physics of biological polymers and their molecular assemblies. He is renowned for developing numerous model systems, such as polymer-supported lipid bilayers or synthetic vesicles functionalized with ligands and cytoskeletal elements, which enabled studies of cell adhesion, cell recognition, and cell migration. He established a series of measurement techniques, such as magnetic tweezers microrheology and quantitative interference contrast microscopy, which are used widely by the field. Moreover, the precision of his novel experimental techniques contributed to the entry of modern polymer physics into biology.



To celebrate the remarkable and creative scientific life of our late colleague and mentor, Erich Sackmann, we invite submission of original research articles, reviews, and perspectives aligned with his areas of interest in cell biophysics. We encourage contributions ranging from biophysical studies in vivo and in vitro to experimental, theoretical, and computational studies. With this special issue, we seek to pay tribute to Erich Sackmann and his remarkable scientific contributions, which left a permanent imprint on the landscape of the field of biophysics.

Deadline for submission: May 31, 2025

- 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 Erich Sackmann special issue and please describe why the work fits into the special issue.
- Normal publishing charges will apply.
- Questions can be addressed to the BJ Editorial Office at BJ@biophysics.org or to (240) 290-5600.



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