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Structure, Dynamics and Energetics of Biomolecular Processes: Forces Driving Macromolecular Association, Folding, and Recognition

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Message from the Guest Editors

Dear Colleagues,

Living cells encompass an exceptionally complex and intricate network of macromolecular interactions that mediate an array of biochemical processes orchestrated within the cellular machinery. These interactions are governed by molecular, dynamic, and energetic forces that collectively operate with unprecedented precision to control and regulate cellular functions. This Special Issue welcomes the contribution of original articles and reviews that focus on the structure, dynamics, and energetics of biological processes with particular emphasis on macromolecular association, folding, and recognition. These studies invoke a multidisciplinary array of biophysical, computational, and structural approaches including analytical ultracentrifugation, differential scanning and isothermal titration calorimetry, surface plasmon resonance, molecular docking and modeling, nuclear magnetic resonance spectroscopy, atomic force microscopy, X-ray crystallography, and related methodologies at the interface of core technologies.

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Special Issue



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Message from the Editor-in-Chief

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