

Special Issue

Impacts of Molecular Structure on Nucleic Acid-Protein Interactions

Message from the Guest Editors

Interactions between nucleic acids and proteins are some of the most important interactions in biology. We aim to cover important and new aspects of protein binding to sequence-specific nucleic acid targets, with emphasis on interactions that involve non-canonical DNA structures, such as G-quadruplexes, i-motifs, triplexes, and cruciform structures. We welcome contributions that involve biophysical, biochemical, and molecular biological, as well as bioinformatics, approaches for analyses of these systems. Authors are invited to submit original research in all areas of protein–nucleic acids research and/or reviews of recent work in this area. Topics considered to be appropriate include all impacts of non-canonical structures of nucleic acids, from biological activity to structure, from detection methods to their protein targeting, providing molecular insight and novel physiological and pathological functions or regulatory mechanisms of non-canonical DNA structures and their protein recognition. Submitted papers can refer to in vitro studies or can involve any cellular system or model organism.

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