



Advances in DNA-Metal Complex Interactions

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Message from the Guest Editor

Since the breakthrough cementing our understanding of the cisplatin binding to DNA upon ligand exchange and its strong antiproliferative action, the study of DNA–metal complex interactions has accompanied the development of metal-based therapeutics for decades. The coordination and redox properties of metal ions along with the multifaceted role of ligands bestow metal complexes with a great versatility for the binding and cleavage of DNA, a biomolecule that remains a primary therapeutic target. Indeed, an increasing number of metal complexes have been reported as showing diverse binding modes and promising biological properties. Notwithstanding, recent advances in the recognition of non-canonical DNA structures, stimuli-responsive interactions, and sequence specificity modifications by metal complexes are propelling novel strategies for the effective transcription inhibition and regulation of this key biomolecule in cell proliferation.

This Special Issue aims to cover the most recent advances in all of these aspects of DNA–metal complex interactions by hosting a mix of original research articles and short critical reviews.





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Message from the Editor-in-Chief

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