Special Issue

Advances in DNA-Metal Complex Interactions

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.

Guest Editor

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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