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Special Issue Reprint

Biological Activity of Metal Complexes

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This Reprint assembles research and review articles examining the biological activity of metal complexes through integrated synthetic, structural, and mechanistic approaches. The contributions highlight how coordination environment, ligand architecture, and electronic structure govern interactions with biomolecular targets, cellular systems, and complex biological media. Across diverse platforms—including rhenium, manganese, chromium, palladium, zinc, and gallium complexes—the studies emphasize quantitative structure–activity relationships, DNA and protein binding behavior, photodynamic performance, imaging capabilities, and chemical fate under physiological conditions.

By combining rigorous physicochemical characterization with biological evaluation, this Reprint underscores the central role played by coordination chemistry in advancing therapeutic, diagnostic, and mechanistic understanding of metal-based systems in biology.

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