

## Special Issue

# Metals in Cancer Research: Beyond Platinum Metallodrugs

### Message from the Guest Editors

Cancer remains a formidable global health challenge. For decades, platinum-based drugs have been a cornerstone of metal-based chemotherapy. In addition, the superior platinum drug (Oxaliplatin) significantly induces immunogenic cell death (ICD). Yet their efficacy is often hampered by severe side effects and the development of acquired resistance. This has spurred the scientific community to explore innovative alternatives "beyond platinum." Non-platinum transition metal complexes—including ruthenium, iridium, gold, and others—have emerged as highly promising candidates. These complexes offer unique chemical properties, reduced systemic toxicity, and novel mechanisms of action, such as mitochondrial targeting, photodynamic therapy, and the ability to overcome drug efflux pumps. This Special Issue is dedicated to showcasing the latest advances in the design, synthesis, and application of these next-generation metal-based anticancer agents, highlighting their potential to enable more precise, effective, and safer cancer therapies.

### Guest Editors

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## Pharmaceuticals

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