



Pharmacology and Toxicology of Metal-Based Therapeutics

Guest Editor:

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Message from the Guest Editor

Many metals are essential for maintaining proper body functions through a number of biological processes. Hence, imbalanced metal homeostasis either by deficiency or by overload of metals is associated with organ dysfunction that leads to various disorders. In contrast, non-essential metals can exert toxic effects even at low levels. However, the precise mechanisms of metal toxicity are not clear. Interestingly, there has been rapid progress in disease detection and therapy using novel metal-based drugs and technologies, but their efficacy and safety remain to be fully understood and clarified.

This Special Issue aims to include original research and review articles on the pharmacology and toxicology of metals or metal-based diagnostics and therapeutics. Examples are studies focusing on the current advances in beneficial or toxic effects of metal nutrients (e.g., iron, zinc, copper, manganese), heavy metals (single or mixtures), drugs that modulate metal transport and status (e.g., metal absorption enhancers, metal chelators) or metal-associated materials (e.g., metal nanoparticles).





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Message from the Editor-in-Chief

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