

Special Issue

Old Drugs for New Metal-Related Diseases

Message from the Guest Editors

As an inseparable part of metal biochemistry, metal ion chelators accompany metal ions as they leave (when in excess) or enter the body (when insufficient). Metal complexes can be used for diagnostics in vitro and in vivo, for metal biopathway studies, or even to kill pathological cells. Different genetic diseases are caused by metal excess or insufficiency: for example, in beta-thalassemia, Wilson's and Menkes' diseases. In recent years, further pathologies have been related to metal ions, such as amyloid diseases, neurodegeneration and diabetes. Finally, metal pollution of the environment leads to metal intoxication of humans and animals. This Special Issue aims to bring together recent research and experience on metal-drug coordination studies, innovative techniques in metal-drug investigations, and drug reposition studies for metal-related diseases. We invite researchers to contribute original research and review articles on recent advances and applications in this field of drug repositioning for metal-related diseases that is receiving so much attention in medicinal chemistry.

Guest Editors

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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