

Special Issue

Rational Design of Pharmacologically Active Metal-Based Compounds

Message from the Guest Editors

Metal-based biomolecules are involved in vital biochemical processes, being the active sites of metalloproteins, metalloenzymes, metal-containing and metal-binding drugs with a remarkable structural diversity and potential therapeutic and diagnostic applications. In recent years, the unique properties of metal-based compounds have tended to offer advantages in the discovery and development of new drugs. Much attention has focused on designing new structures with the desired composition and properties, e.g., coordination complexes, supramolecular structures as well as advanced nanomaterials with improved pharmacological properties and a broader range of activity. This Special Issue focuses on recent advances in this multidisciplinary field with an emphasis on rational design, theoretical, analytical and physicochemical drug discovery strategies, related to biologically relevant applications. Original research articles, short communications and reviews highlighting the latest advances in the field will be considered for publication.

Guest Editors

Prof. Dr. Irena Kostova

Department of Chemistry, Faculty of Pharmacy, Medical University, 2 Dunav St., Sofia 1000, Bulgaria

Prof. Dr. Luciano Saso

Faculty of Pharmacy and Medicine, Sapienza University of Rome, 00185 Rome, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
inorganics@mdpi.com

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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

Prof. Dr. Duncan H. Gregory

School of Chemistry, University of Glasgow, University Avenue, Glasgow G12 8QQ, UK

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