

Special Issue

Rational Design and Synthesis of Bioactive Molecules

Message from the Guest Editors

The development and application of bioorganic, bioinorganic, coordination chemistry and nanostructured materials to medicine is an emerging field, and novel therapeutic and diagnostic compounds are now having an impact on medical practice. The application of new synthetic, analytical, spectral methodologies, theoretical and drug delivery approaches, widely used in drug discovery, is beneficial for the development of bioactive substances as therapeutics and diagnostics due to mutual efforts of chemists, biologists and experts in pharmacology, photophysics, bioimaging, etc.

The Special Issue focuses on recent advances in this multidisciplinary field. Special emphasis is put on the rational design and synthesis, structure determination, bonding, theoretical, analytical and physicochemical drug discovery strategies, together with the design of novel drug delivery systems related to the biologically relevant applications of a variety of compounds with improved efficiency. The scope of this issue is to review, critically discuss the current developments and to provide the reader with up-to-date information on various aspects of this fascinating research area.

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