Special Issue

Novel Bioactive Macrolides: Design, Preparation, Properties

Message from the Guest Editors

Macrolide antibiotics belong to a class of macrolide molecules consisting of a central 12–16-membered macrolactone ring and one or more sugar units attached to it. Although the crystal structures of some ribosome–macrolide complexes have been solved recently, which threw new light on the binding mechanisms of macrolides to ribosomes and served as a platform for drug design, there are still no new macrolide antibiotics on the market. On the other hand, emerging multi-drug-resistant microbial pathogens demand the discovery of novel and more effective antimicrobial agents. This Special Issues will cover recent developments in the field of the discovery of new bioactive macrolides. It is aimed at giving insights into the design and strategies used to prepare compounds with improved activities and overall biological profile, and evaluation of their structure, physico-chemical properties and interactions.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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