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Novel Bioactive Macrolides: Design, Preparation, Properties

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Message from the Guest Editors

Dear Colleagues,

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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Guest Editors

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Message from the Editor-in-Chief

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