

Special Issue

Quinoline System in Design and Synthesis of New Bioactive Agents

Message from the Guest Editor

The quinoline system occupies a special, privileged place in medicinal chemistry. Quinoline derivatives of both natural and synthetic origin exhibit a broad spectrum of biological activity. They possess anticancer, antimalarial, anti-inflammatory, antibacterial, antiviral, antituberculosis, and analgesic properties. Quinoline-based compounds form important scaffolds in medicinal chemistry, primarily used for the design of anti-infective and anticancer drugs. One strategy used in the design of new drugs is the creation of hybrid systems combining two biologically active molecules. This approach can be an alternative to the combined use of two or more drugs, has a beneficial effect on the pharmacokinetic parameters of the compounds (improved bioavailability), and enables their action at the appropriate target site. Research into the synthesis of hybrid systems containing a quinoline structural fragment (8-hydroxyquinoline, 4-aminoquinoline, 4-quinolone system) and other pharmacophoric systems (drug structural fragments, other heterocyclic systems) is of great importance in the design of new biologically active compounds (potential drugs).

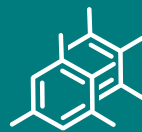
Guest Editor

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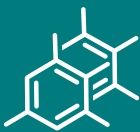


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