Special Issue

Novel G-Quadruplex Ligands: From Synthesis to Evaluation

Message from the Guest Editor

G-quadruplexes (G4s) are four-stranded nucleic acid structures that can fold into guanine-rich sequences. These polymorphous secondary structures have received much attention in medicinal chemistry thanks to their occurrence in key regions of the genome. Evidence suggests that G4s affect genomic instability, affect telomerase dysfunction, and behave as transcriptional repressor elements. Thus, targeting G4 structures has emerged as an alternative strategy for the potential treatment of many diseases. Following this observation, several G-quadruplex-binding molecules have been developed for therapeutic purposes. This Special Issue will focus on the rational design of new selective molecular ligands able to interact, stabilize, alkylate, and cleave G4s.

Guest Editor

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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