

## 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

Dr. Filippo Doria

Department of Chemistry, Università degli Studi di Pavia, Pavia, Italy

### Deadline for manuscript submissions

closed (5 December 2022)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/65991](https://mdpi.com/si/65991)

*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

[mdpi.com/journal/  
molecules](https://mdpi.com/journal/molecules)





# Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/journal/  
molecules](https://mdpi.com/journal/molecules)



## About the Journal

### Message from the Editor-in-Chief

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.

---

### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).