



an Open Access Journal by MDPI

## G Protein-Coupled Receptors

Guest Editor:

**Prof. Dr. Stawomir Filipek**

Faculty of Chemistry, Biological  
and Chemical Research Centre,  
University of Warsaw, Warsaw,  
Poland

Deadline for manuscript  
submissions:

**closed (31 May 2021)**

### Message from the Guest Editor

Dear Colleagues,

G-protein-coupled receptors (GPCRs) represent the largest family of surface receptors in the human body and play a key role in cellular signaling. Since they participate in numerous physiological and pathological processes, GPCRs are extremely important as molecular targets for drugs in medicine. Ligands of GPCRs are used in the treatment of many diseases, including cardiovascular and mental disorders, cancer, and viral infections. Additionally, they are also involved in various kinds of inflammation processes and neurodegeneration. Currently, approximately 30%–50% of drugs in clinical use are targeting GPCRs. Our current understanding of function of GPCRs was changed from simple on-off machines to multidimensional signaling. Each receptor undergoes a series of conformational rearrangements controlled by molecular switches, leading to partial or full activation.

Prof. Dr. Stawomir Filipek

*Guest Editor*



[mdpi.com/si/28199](https://mdpi.com/si/28199)



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Thomas J. Schmidt

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

## 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.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

## Contact Us

---

*Molecules* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/molecules](http://mdpi.com/journal/molecules)  
[molecules@mdpi.com](mailto:molecules@mdpi.com)  
[X@Molecules\\_MDPI](#)