

Special Issue

G Protein-Coupled Receptors

Message from the Guest Editor

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.

Guest Editor

Prof. Dr. Sławomir Filipek

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

Deadline for manuscript submissions

closed (31 May 2021)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/28199

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).