

## Special Issue

# Current Advances in ABC Transporters in Physiology and Disease

### Message from the Guest Editor

ATP-binding cassette transporters are critical for transporting various endogenous metabolites such as bile acids, sterols, lipids, peptides, and exogenous molecules such as antibiotics, toxins, and drugs. Several studies in this field have revealed that several genes encoding these transporters are mutated in human diseases, several of which contribute to multidrug resistance in cancer chemotherapy, and that single nucleotide polymorphisms in these genes determine the pharmacokinetics of various drugs and contribute to the development of various diseases. This Special Issue aims to present recent original research and review manuscripts that contribute to the understanding of ABC transporters, from their structure to their impact on human physiology, disease, and genetic variation, including the pathogenesis of multifactorial disorders such as metabolic diseases, drug pharmacokinetics, and multidrug resistance in cancer chemotherapy. This topic should enhance our understanding of ABC transporters, and pave the way for alternative therapeutic strategies and the development of preventive, diagnostic, and therapeutic approaches for some diseases.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 March 2025)



## Biomolecules

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*Biomolecules* is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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