

## Special Issue

# Synthesis, Characterization and Validation of Small Molecule Compounds

### Message from the Guest Editor

My research centers on the rational design and synthesis of small molecule inhibitors that target various biological pathways, including tubulin polymerization, carbonic anhydrases, cyclooxygenase-2, cyclin-dependent kinases, epidermal growth factor receptor, vascular endothelial growth factor receptor-2, and cholinesterases. This work illustrates the complex nature of contemporary medicinal chemistry, wherein target-oriented synthesis methods facilitate the efficient assembly of intricate molecular structures from accessible starting materials. The combination of computational tools and traditional synthetic methodologies has transformed the design and validation of bioactive compounds. This Special Issue will present recent advancements in small molecule synthesis, characterization techniques, and biological validation methods that contribute to innovation in therapeutic discovery, emphasizing the essential link between synthetic chemistry and biological activity in effective drug development programs.

### Guest Editor

Dr. Mohamed Fares Metwaly

Sydney Pharmacy School, Faculty of Medicine and Health, The University of Sydney, Sydney, NSW 2006, Australia

### Deadline for manuscript submissions

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## Biomolecules

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

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### Message from the Editorial Board

*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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