

Special Issue

Expanding the Cancer Drug Discovery Toolbox: A Focus on Protein Degradation, Allosteric Modulation, and Covalent Inhibition

Message from the Guest Editors

In recent years, there has been unprecedented innovation in allosteric drug discovery and development, with multiple drug candidates advancing into clinical studies. Allosterism, which involves designing small molecules to bind to non-orthosteric sites, allows for the fine-tuned regulation of protein activity, offering greater selectivity and reduced side effects. Over the past 30 years, the rational design of covalent drugs has gained significant attention as a strategy to enhance selectivity by targeting non-conserved amino acids. Moreover, the prolonged target engagement of covalent drugs offers distinct pharmacodynamic advantages, including exceptional potency, particularly against high-turnover or drug-resistant proteins. This Special Issue welcomes original and review articles that showcase recent advancements in these fields, emphasizing innovative chemical methodologies, structure-based drug design, and promising preclinical and clinical outcomes.

Guest Editors

Dr. Rita Maria Concetta Di Martino

Department of Pharmaceutical Sciences, University of Piemonte Orientale (UPO), Via L. Donegani 2, 28100 Novara, Italy

Dr. Antonella Messori

1. Dipartimento di Scienze Della Vita, Della Salute e Delle Professioni Sanitarie, Link Campus University Via del Casale di San Pio V, 44, 00165 Rome, Italy

2. Istituto Pasteur-Fondazione Cenci Bolognetti, Dipartimento di Chimica e Tecnologie del Farmaco, "Sapienza" Università di Roma, Rome, Italy

Deadline for manuscript submissions

25 September 2025



Pharmaceuticals

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 7.7
Indexed in PubMed



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal

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