

Special Issue

Molecular and Cellular Advances on Drug Discovery, Pharmacology and Toxicology, 2nd Edition

Message from the Guest Editors

In recent years, there has been an unprecedented convergence of multidisciplinary research, integrating molecular and cellular biology with drug discovery, pharmacology, and toxicology. This synergy has not only accelerated the identification of potential new therapeutic targets but has also enhanced our understanding of the intricate mechanisms governing drug response and toxicity. In an era where precision medicine, targeted therapies, and emergent drug abuse dominate scientific research, the convergence of molecular and cellular insights with drug discovery and toxicology has become indispensable, fostering a deeper understanding of the molecular foundations of diseases, the pharmacological intricacies of therapeutic agents, and the safety considerations vital for clinical translation. In this Special Issue, we are interested in reviews and original articles describing cellular and molecular advances on drug discovery, pharmacology, and toxicology, in in vitro and in vivo models; or reporting evidence and expectations attained from the in silico modeling of existing and novel compounds with potential biological activity.

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