

Pharmaceuticals

an Open Access Journal by MDPI

CiteScore: 9.0
Indexed in PubMed
Impact Factor: 5.7

Special Issue Reprint

Pharmacological Activities of Flavonoids and Their Analogues 2024

Edited by: Fernando Calzada and Miguel Valdes

This Reprint complies a comprehensive collection of peer-reviewed scientific articles focused on the cutting-edge advancements in the field of chemistry and pharmacology of flavonoids and their synthetic derivatives. Flavonoids represent a structurally diverse class of natural polyphenols with immense therapeutic potential. This dynamic volume highlights innovative research regarding the isolation, chemical modification, and structural optimization of these compounds to overcome traditional pharmacokinetic limitations and enhance their biological efficacy. The complied studies in this Reprint explore diverse pharmacological activities including antidiabetic, antioxidant, and anti-inflammatory properties, bridging the gap between traditional medicine and modern drug discovery. Additionally, special emphasis is placed on mechanisms of action elucidated through sophisticated in vitro and in vivo models, alongside advanced computational strategies and in silico molecular docking simulations. By integrating synthetic organic chemistry with molecular pharmacology, this Reprint serves as an essential and up to date reference for medicinal chemists, pharmacologists, and multidisciplinary researchers dedicated to the development of next-generation plant-derived therapeutics and molecular analogues.

https://www.mdpi.com/books/reprint/13227