

Special Issue

Cholinergic Modulation, Anticholinergic Burden, and Neuroprotection: Mechanisms to Therapeutics

Message from the Guest Editors

Scopolamine, a tropane alkaloid with strong anticholinergic properties, has been extensively used in medical practice for conditions such as motion sickness, postoperative nausea, and neurological disorders. However, its therapeutic potential is often counterbalanced by adverse effects, including cognitive impairment, neurotoxicity, and a risk of dependency. Ongoing research aims to optimize its clinical applications while minimizing unwanted side effects through innovative drug delivery systems, antioxidant therapies, and neuroprotective agents. This Special Issue welcomes original research articles, reviews, and short communications exploring the pharmacology of scopolamine, with a focus on mitigating its side effects and expanding its therapeutic applications. We also encourage studies investigating natural bioactive compounds, such as flavonoids and polyphenols, in counteracting scopolamine-induced neurotoxicity and cognitive decline.

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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