

Special Issue

Therapeutic Potential of Natural Plant-Derived Compounds in Glioblastoma and Other Brain Tumors

Message from the Guest Editors

Natural plant-derived compounds—such as flavonoids, alkaloids, terpenes, and polyphenols—have emerged as promising candidates for targeting glioblastoma and other brain tumors through diverse mechanisms, including induction of apoptosis, inhibition of proliferation, suppression of angiogenesis, and modulation of drug resistance pathways. Advances in nanoformulations and prodrug design are also enabling improved targeting and brain bioavailability of these compounds. For this Special Issue, we invite original research articles and reviews focusing on the role of plant-derived natural compounds in glioblastoma and other brain tumors. Relevant topics include mechanistic studies of phytochemicals that influence tumor signaling, resistance pathways, glioma stem cell plasticity, and therapeutic synergy with existing treatments. We also welcome research exploring pharmacokinetics, novel delivery systems for improved brain targeting, and the modulation of tumor metabolism and the tumor microenvironment by dietary or plant-based compounds.

Guest Editors

Dr. Agnieszka Nowacka

Dr. Ewa Aleksandra Ziółkowska

Dr. Daniela De Vita

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Pharmaceuticals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceuticals@mdpi.com

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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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