

Special Issue

Biological and Pharmacological Research on Indole-3-Carbinol (I3C) and Its Derivatives

Message from the Guest Editor

Indole-3-carbinol (I3C) is a natural compound found in vegetables from the Brassicaceae family. It has been extensively studied for its biological and pharmacological properties, including its ability to suppress cell cycle progression, block cancer cell migration, promote apoptosis, and inhibit tumor growth and Sars-CoV-2 viral egression. One of the main focuses for researchers is to make changes to I3C's chemical structure characteristics to improve its stability. Different design strategies were applied to enhance the possibility of performing lead optimization and obtaining derivatives with a better pharmacodynamic and pharmacokinetic profile than I3C. This Special Issue aims to invite both reviews and original articles that shed light on the biosynthetic processes and synthetic procedures for obtaining I3C and its main derivatives. This Special Issue's objective is also to explore the characteristics, mechanism of action, and therapeutic potential of I3C and/or its derivatives both in health and in preventing and treating various diseases.

Guest Editor

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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