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Tannin Analysis, Chemistry, and Functions

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Message from the Guest Editors

Tannins are phenolic compounds present in plants, fruits, and beverages. They are capable of binding and, in many cases, to precipitate proteins, which is the basis of their function in plants and industrial uses. This property is also responsible for the sensory role that tannins play in some food and beverages like cocoa, tea, and wine. Moreover, several biological and health-related properties have been reported for these compounds, suggesting protection against oxidative stress, antimicrobial properties, and prevention of some types of cancer. As a consequence, the industry has an increasing interest in tannin-rich extracts or products with biological and technological functions.

This Special Issue is focused on the most recent advances in tannin chemistry, analytical methodologies, new sources, valorization of industrial waste materials, standardization of extracts, and tannin-based bioactive products. Furthermore, articles addressing the technological, biological, and sensory properties of tannins are also in the scope of this Special Issue .

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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