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Extraction and Separation of Natural Products from Plant Food

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Message from the Guest Editors

Plant-based natural products have important uses in the ancient and modern societies. Natural products, either pure or as standardized extracts, provide substrates for new active compounds suitable for the food, cosmetic and pharmaceutical industry. The quality of plant extracts depends on the quality of the raw materials and the applied extraction techniques. Different approaches can be used for the recovery of phyto-components from their natural sources: conventional extraction techniques are commonly used for the production, but in recent years, the use of more efficient, environmentally friendly and economical advanced extraction techniques has been increasing due to better yield of targeted molecules and quality of the extract. Achieving the isolation of pure natural products from complex mixtures remains challenging and the application of more selective methods from extraction to fractionation and purification will speed up the time from collecting biological material to isolating the final purified compound. The focus of this paper is on analytical methodologies, which include the extraction, isolation and characterization of active ingredients from natural plants.



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Special Issue



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Message from the Editor-in-Chief

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