

Tentative Outline

Special Thematic Issue for Current Nutraceuticals

Polyphenols as functional food ingredients

Guest Editor: Dr Quan V Vuong

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Aims & Scope:

Polyphenols derived from natural sources, such as medicinal plants, fruits, vegetables, legumes, cereals, cocoa, coffee, and tea, have diverse structures and properties. Polyphenols can act as a defensive mechanism against diseases and pathogens. Polyphenols are also associated with anti-microbial growth and prevention of lipid oxidation. In addition, they can be the tasting and coloring agents and also exhibit potent antioxidant activities. Therefore, they have gained great attention due to their uses in functional foods and as cosmetic ingredients and therapeutic agents. However, polyphenols may be adversely affected when exposed to heat, light and oxygen, thus it is important to cost-effectively prepare, extract and isolate them from natural sources for further applications. The scope of this special issue is to present recent studies on the preparation, extraction, isolation, identification, utilization and stabilization of polyphenols derived from natural sources and their associated health benefits.

Keywords: polyphenols, flavonoids, antioxidants, phenolics, extraction, separation, isolation, identification, utilization, phytochemicals

Subtopics:

The subtopics to be covered within this issue are listed below:

- Advances in drying technologies for preparation of materials to retain polyphenols.
- Effective extraction, separation and isolation of phenolic compounds from natural sources.
- Characterisation and identification of phenolic compounds derived from natural sources.
- Applications of phenolic enriched extracts or polyphenols in nutraceuticals.
- Polyphenols as antioxidants
- Polyphenols and health benefits.

Schedule:

- ✧ Manuscript submission deadline: October 30, 2020
- ✧ Peer Review Due: February 30, 2021
- ✧ Revision Due: March 30, 2021
- ✧ Announcement of acceptance by the Guest Editors: April 15, 2021
- ✧ Final manuscripts due: May 15, 2021

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