



plants



an Open Access Journal by MDPI

Chemical Analysis / Biological Functions of Tea

Guest Editors:

Dr. Qiang Chu

Tea Research Institute, College of
Agriculture & Biotechnology,
Zhejiang University, Hangzhou,
China

Dr. Ping Chen

Tea Research Institute, College of
Agriculture & Biotechnology,
Zhejiang University, Hangzhou,
China

Deadline for manuscript
submissions:

31 December 2024

Message from the Guest Editors

Dear Colleagues,

Tea is one of the most widely consumed beverages in the world and has been used for centuries for its biological functions. The biological functions of tea have been attributed to its abundant active components. The large number and variety of tea compounds as well as their secondary metabolites need further exploration. Chemical analysis, especially the advancement of high-precision analysis techniques and modern data analysis methods, has provided new tools for qualitative and quantitative analysis of tea compounds. These components have been found to not only exhibit various biological functions in animals, but also act on the growth and development of plants, such as providing defense against pests and diseases, growth regulation, and stress tolerance. Moreover, the various effects of tea components on microorganisms such as bacteria, fungi, and viruses have also been reported.

This Special Issue aims to provide recent findings on the chemical analysis, biological functions, and action mechanisms and applications of tea components. Both original research and review articles are welcome.



mdpi.com/si/176574

Special Issue



plants



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Plant Sciences*) / CiteScore - Q1 (*Plant Science*)

Contact Us

Plants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)