

Biomedical Application of Natural Plant Extracts

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Recent experimental developments in nanoformulations with different biomedical activity based on natural plant extracts and the efficacy of the active compounds within them are among the most highly exploited research systems in the field of biological sciences. The Special Issue includes but not limited to the following topics:

- Experimental research, knowledge and new ideas about the protective effects of natural plant extracts against different diseases
- Recent developments in the quantitative and qualitative activities of natural products and active compounds
- Anti-cancer activities of some natural plant extracts and nanoformulations
- High-performance chromatography experimentation and processing with exposure to high temperatures, high stress, and other extreme environmental conditions
- Understanding the chemical characterization of different nanoparticle coatings and their biological activities
- The latest developments in anti-diabetic agents from natural plant extracts and different chemical agents
- Computer modeling and simulation to predict nanoparticle coating properties and performance in service environments





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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