



Phytocompounds: An Alternative Antimicrobial Therapy and Beneficial Bioactive Molecules

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Message from the Guest Editor

Dear Colleagues,

Antibiotic resistance has become a worldwide concern that requires constant surveillance. ESKAPE bacteria, for example, can “escape” the common antibiotic therapies due to their increasing drug resistances. This worrying threat may be addressed with the help of phytocompounds, alone or in synergy with other natural or synthetic substances.

Phytocompounds have been showed to have other important properties favorable to the human health as antioxidant, anti-inflammatory, immunomodulating, wound healing and anticancer properties.

The innovation of nanotechnologies can be extended to the production of phytocompound nanosystems for the delivery of substances as well as to the application to biomaterials.

Those natural substances and nanosystems can be investigated through “in vitro” trials with the aim to prove their indicated assumptions.

Keywords: phytocompounds; antimicrobial and anti-biofilm activities; synergistic effects; ESKAPE pathogens; anti-inflammatory, antioxidants, and anticancer activities; wound healing properties; bioactive molecules; phytocompounds applications; nanosystems; “in vitro” trials





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Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciplines are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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