

## Special Issue

# Immunomodulatory Potential of Essential Oils and Their Compounds

### Message from the Guest Editors

The use of natural chemical compounds, including essential oils (Eos) and their compounds (EOCs), to fight pathogens has been increasingly successful, and work on their implementation into treatment has accelerated significantly over the past decade. They have been used for hundreds of years as an alternative form of treatment against infections. It is worth noting that these compounds have almost no side effects, and if any occur, they are mild. Scientific advances, including the development of fields such as pharmacognosy, biochemistry, physiology, enable us to thoroughly understand the mechanism of action of phytotherapeutics. In this Special Issue, we will publish laboratory studies and reviews on the immunostimulatory potential of essential oils and their compounds. Potential topics include in vitro/ex vivo evaluation of innate and/or acquired immune responses in the presence of (1) EOs and/or EOCs, (2) EOs or EOCs and bacterial antigens, and (3) bacteria pre-treated with EOs or EOCs.

- immunomodulatory activity
- immune response
- immune cells
- natural compounds
- essential oils
- essential oil compounds
- cytokines
- chemokines
- gene expression

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### Guest Editors

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**Deadline for manuscript submissions**



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*Biomedicines* (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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