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## Immunomodulatory Potential of Essential Oils and Their Compounds

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Deadline for manuscript submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

Dear Colleagues,

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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# Special Issue



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## Message from the Editor-in-Chief

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