

Special Issue

Advanced Research in Immunotoxicity and Oxidative Stress

Message from the Guest Editor

Concerns about toxicity related to macrophage activation and immune systems are currently increasing, potentially due to foods, food additives, nanomaterials, toxicants, natural compounds, and functional ingredients. Macrophages play a role in the immune response and are primary targets in many diseases. M1 macrophage activation leads to the production of pro-inflammatory cytokines, phagocytosis of microbes, and initiation of an immune response, while M2 macrophages promote wound healing, anti-inflammatory responses, and tissue repair. Maintaining a balance between pro- and anti-inflammatory activation is essential for normal immunologic function. Meanwhile, inflammation can be triggered by oxidative stress, which causes a range of chronic diseases. This Special Issue will focus on toxicity associated with macrophage activation, including pro- and anti-inflammatory responses in diseases, toxicity, health, and the immune system. Studies on oxidative-stress-induced inflammation and related diseases are also encouraged. We welcome studies involving in vitro cell lines, in vivo animal models, mechanisms, and signaling pathways.

Guest Editor

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