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Nutritional Deficiencies as a Driver of Inflammation: Molecular Mechanisms of Immune Defense

Guest Editor

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Message from the Guest Editor

We are shaped by our environment, with our immune system being at the forefront of handling and discerning between harmful and harmless factors. Nutrition and immunity are closely intertwined, with microbial crossfeeding contributing to health. However, in the context of nutrient deficiencies, a veritable tug-of-war for these nutrients can ensue between the various organisms, which can tip the system towards disease, e.g., inflammation. Understanding the specific mechanisms and factors contributing to inflammation is essential to develop preventive or therapeutic measures that re-establish health or at least mitigate the disease course.

This Special Issue focuses on the recent scientific progress that enhances our understanding of nutrient-dependent immunoregulation and inflammation. Based on your expertise, we invite original reports, observations and reviews that identify (i) environmental contributors, (ii) pathways to immune activation, (iii) mechanisms of immunosuppression and tolerance induction and (iv) recent advances in novel prophylactic and therapeutic measurements.













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