

Special Issue

Nutrition, Inflammation, and Chronic Kidney Disease

Message from the Guest Editor

Patients with chronic kidney disease (CKD) face several factors that contribute to increased inflammation, including oxidative stress, metabolic acidosis, proteinuria, infections, changes in adipose tissue metabolism, and gut dysbiosis. The inflammatory condition in CKD is marked by the abnormal activation of the innate immune system, which ultimately leads to the signaling of various inflammatory pathways, such as nuclear factor kappa B (NF- κ B), toll-like receptor 4 (TLR4), and nucleotide-binding domain, leucine-rich-containing family, pyrin domain-containing-3 (NLRP3). The primary consequence of this inflammatory state includes disease progression, renal fibrosis, the onset of cardiovascular diseases, and increased mortality in this population. Among these strategies, the notion of food as medicine has gained prominence, as the nutrients and bioactive compounds in food can influence inflammatory pathways in CKD. Therefore, this Special Issue aims to explore areas related to the use of nutrients, bioactive compounds from food, or dietary patterns that modulate the inflammatory condition in CKD.

Guest Editor

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