

Special Issue

Vitamins and Inflammation: Building a Translational Framework for Next- Generation Research

Message from the Guest Editor

This Special Issue aims to reframe the role of vitamins as key modulators of immuno-metabolic pathways underlying inflammatory diseases, spanning molecular mechanisms to clinical translation. Despite evidence linking vitamins to the regulation of NF-KB signaling, inflammasome activation, redox homeostasis, and T-cell polarization (Th17/Treg balance), clinical outcomes remain heterogeneous due to variability in study design, biomarker selection, and interindividual factors such as genetics and microbiota composition. Focus areas include vitamin D-mediated immune regulation in autoimmune disorders, antioxidant vitamins (C and E) in oxidative stress and endothelial dysfunction, vitamin A in mucosal immunity and host-microbiota interactions, and B vitamins in homocysteine metabolism and vascular inflammation. Contributions are expected to articulate unresolved questions, propose testable hypotheses, and, where feasible, provide reusable datasets or standardized protocols to support reproducibility and data integration. By integrating mechanistic insights with translational relevance, this Special Issue seeks to advance vitamin-based strategies in inflammatory disease modulation.

Guest Editor

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Message from the Editor-in-Chief

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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