



## Targeting Inflammaging and Degeneration by Amino Acids

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### Message from the Guest Editor

The process of ageing and stress or aberrant signaling-induced senescence can induce inflammation and degeneration. Oxidative stress affects signaling pathways for metabolic protein turnover that can recruit malfunctioning aberrant proteins and compounds that trigger inflammatory processes. Although various cell types are involved in secreting proinflammatory signals, the lack of trophic prosurvival signaling by amino acids and the resulting insufficient antioxidative protection by amino acid metabolites derived from the symbiotic organisms in the gastrointestinal tract and the endothelial cells of the cardiovascular system or the myocytes from the muscles seem to contribute most to age-dependent inflammatory processes that impair health. Recent studies emphasized the role of metabolic mitochondrial dysregulation in degenerative inflammatory diseases.

This Issue focuses on these detrimental metabolic and immune responses during ageing and invites contributions to this rapidly developing field of research with special emphasis on approaches that successfully target inflammation and degeneration by providing amino acids as the decisive molecules enabling endogenous regeneration.





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## Message from the Editor-in-Chief

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