



Unraveling the Complexities of Aging: Inflammation, Immunosenescence, and Aging

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Message from the Guest Editor

Dear Colleagues,

Aging is a universal biological process marked by diverse physiological changes over time, with a significant aspect being immunosenescence within the immune system. This phenomenon involves intricate alterations in innate and adaptive immunity, closely linked to persistent, low-grade inflammation—a hallmark of immunosenescence. This chronic inflammation is a significant predisposing factor for various age-related conditions.

Our Special Issue aims to uncover the mechanisms of immunosenescence, explore its interplay with aging, and highlight its crucial role in age-related diseases.

Research areas include but are not limited to:

- Elucidation of the molecular mechanisms underpinning immunosenescence.
- Examination of the impact of immunosenescence on age-related diseases.
- Exploration of cellular senescence and its contribution to inflammation and aging.
- Proposal of strategies to modulate immunosenescence and promote healthy aging.
- Analysis of lifestyle factors (such as diet and exercise) and their influence on the aging immune system.





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