

Special Issue

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

Message from the Guest Editor

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.

Guest Editor

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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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