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Genetic, Proteomic, Lipidomic, and Metabolomic Markers of Aging

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Message from the Guest Editors

We can all agree that understanding pathology in the context of aging requires defining the physiology of aging.

Cell senescence is one of the hallmarks of aging and is associated with changes of multiple aspects of cell biology. That includes alterations of genetic material, transcription, translation, or post-translational modifications, which is reflected in altered proteomic, lipidomic, and metabolomic profiles of cells and tissues. Identification of aging markers that would allow elimination or at least slow the progression of undesirable changes taking place during aging is one of the priorities of aging research.

Thus, the aim of this Special Issue, entitled "Genetic, proteomic, lipidomic, and metabolomic markers of aging," is to collect work on the current research associated with the aspects of physiology and the pathology of aging. We encourage you to submit your manuscripts associated with exciting aspects of diagnostics and monitoring of aging markers and their potential in evaluating the function of living systems at all levels from overall health to through the condition of organs and tissues, to single cells at the molecular level.









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