



Molecular Genetics of Aging: Current State-of-the-Art, Challenges and Opportunities

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Message from the Guest Editors

Aging is the gradual deterioration of functional integrity and systemic homeostasis, concluding in death. The complexity of aging is determined by the following hallmarks: chronodisruption, genomic instability, telomere attrition, epigenetic alterations, loss of proteostasis, deregulated nutrient sensing, mitochondrial dysfunction, cellular senescence, stem cell exhaustion and altered intercellular communication. Advances in research have facilitated the identification of genes that regulate aging, such as those implicated in the molecular machinery of the biological clock, nutrient-sensing pathways, growth factor pathways, mitochondria function, inflammation, and the immune system.

This Special Issue “Molecular Genetics of Aging: Current State-of-the-Art, Challenges and Opportunities” will discuss the current state-of-the-art, challenges and opportunities in the field of molecular genetics of aging. Authors are encouraged to submit original research manuscripts and related review articles.

Deadline for manuscript
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Special Issue



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