

Special Issue

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

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.

Guest Editors

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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