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Telomere and Heterochromatin Biology in Ageing and Disease

Guest Editor:

Dr. Aaron Mendez-Bermudez

1. School of Medicine, CNRS, INSERM, IRCAN, Université Côte d'Azur, 06103 Nice, France

2. International Research Laboratory for Hematology, Cancer and Aging, Shanghai Ruijin Hospital, Shanghai Jiaotong University and Côte-d'Azur University, Shanghai, China

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Message from the Guest Editor

Ageing can be described as the accumulation of changes experimented over the life of an organism. It is thought than the accumulation of senescent cells in tissues leads to organ deterioration and ultimately to age-related pathologies such as atherosclerosis, arthritis, osteoporosis, type 2 diabetes, and cancer, amongst others.

In recent years, the understanding of the cellular and molecular mechanisms leading to senescence has significantly progressed. Many players are interconnected in this process. Among them, telomeres, sometimes referred as the biological clock of the cells, have been paid special attention due to their role in modulating the life span of the cells. More recently, heterochromatin was found to play significant roles in the nuclear organization and gene expression changes occurring in this biological process.

This Special Issue aims to gather novel findings on telomere and heterochromatin biology, ranging from DNA replication, recombination, and repair to nuclear organization and gene expression, with a special focus on ageing and age-related pathologies.



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Special Issue



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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

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Contact Us

Life Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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