

an Open Access Journal by MDPI

Role of DNA Damage and Repair in Aging

Guest Editors:

Prof. Dr. Vadim Fraifeld

The Shraga Segal Department of Microbiology, Immunology and Genetics, Center for Multidisciplinary Research on Aging, Ben-Gurion University of the Negev, Beer Sheva, Israel

Prof. Alexey Moskalev

Laboratory of Geroprotective and Radioprotective Technologies, Institute of Biology, Komi Science Centre, Ural Branch, Russian Academy of Sciences, Syktyvkar, Russia

Deadline for manuscript submissions:

closed (30 November 2021)

Message from the Guest Editors

In the tissues of aging animals and humans, the frequency of DNA damage and somatic mutations increases and so-called genome instability arises, which is expressed in a set of point mutations, breaks, and cross-links of DNA strands, transpositions and translocations, and aneuploidies. Moreover, different somatic cells accumulate mutations at different rates. As a result, clones of cells with a slightly different genotype are formed in an aging organism, inducing somatic mosaicism. Signs of accelerated aging in people with congenital mutations in DNA repair genes remained the main argument for many years. Apparently, reliable methods of DNA protection are one of the reasons for the "immortality" of germline cells.

In the Special Issue, "Role of DNA Damage and Repair in Aging", we expect papers on the aging-related dynamics of DNA damages, aneuploidy and somatic mutations in somatic and germinative tissues, the role of DNA repair in aging and longevity in human (including centenarians) and different species, and epigenetic stability with age.













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química e Bioquímica (CQB), Faculdade de Ciências, Universidade de Lisboa (FCUL), Rua Ernesto de Vasconcelos, Campo Grande, Edifício C8, 5º Piso, 1749-016 Lisboa, Portugal

Message from the Editor-in-Chief

Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*.

Pharmaceuticals is characterized by an active editorial board and a dynamic editorial staff. Manuscripts are peer-reviewed and a final decision is provided to authors within 4–6 weeks after submission. Papers are published on the web immediately after acceptance. For details on the submission process or any other matter, please do not hesitate to contact us.

We hope to handle your contribution to *Pharmaceuticals* soon.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Pharmacology & Pharmacy*) / CiteScore - Q2 (*Pharmaceutical Science*)

Contact Us