

Special Issue

DNA Repair: From Neuronal Development to Degeneration

Message from the Guest Editor

Recent studies have demonstrated that the proper development of cognitive abilities is also a consequence of the proper functioning of DNA double-strand breaks (DSBs) machinery. Furthermore, clinical reports describe developmental defects and increased hyperexcitability in subjects with genetic mutations against genes linked to the DNA repair pathways. This evidence indicates how changes in DNA repair proteins may affect brain developmental processes. In parallel, recent data established a connection between reduced DNA repair capacity and neurodegenerative conditions, which are profoundly characterized by defective cognitive abilities, as found in preclinical studies for Parkinson's and Alzheimer's diseases. Thus, the scope of this Special Issue is to highlight why and how DNA repair machinery is implicated in neurological and cognitive diseases, thus representing a new pathological substrate and potential therapeutic target for neurological states.

Guest Editor

Dr. Flavia Antonucci

Department of Pharmacological and Biomolecular Sciences, Università degli Studi di Milano, Milan, Italy

Deadline for manuscript submissions

closed (28 February 2021)



Biomedicines

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 6.8
Indexed in PubMed



mdpi.com/si/55726

Biomedicines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomedicines@mdpi.com

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

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