



DNA Replication Stress

Guest Editor:

Dr. Robert M. Brosh, Jr.

Helicases and Genomic Integrity
Section, Translational
Gerontology Branch, National
Institute on Aging, National
Institutes of Health, Baltimore,
MD, USA

Deadline for manuscript
submissions:

closed (30 November 2018)

Message from the Guest Editor

Dear colleagues,

During DNA synthesis in vivo, the replication fork encounters a variety of forms of stress imposed by DNA damage, alternate DNA structures, genetic deficiency, and pharmacologically-induced conditions that ultimately impede fork progression and may lead to the elicitation of signaling cascades. To contend with a variety of different forms of replication stress, eukaryotic cells possess a number of mechanisms involving DNA damage response or DNA repair proteins as well as cell cycle checkpoints to help mediate the appropriate response. This IJMS Special Issue on “DNA Replication Stress” welcomes contributions in all areas that address these mechanisms, mediated at the molecular and cellular levels, to respond to adverse genomic perturbations and cellular conditions so that chromosomal stability and cellular homeostasis is maintained.

Dr. Robert M. Brosh Jr

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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.

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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI