



genes



an Open Access Journal by MDPI

DNA Replication/Repair, and the DNA Damage Response in Human Disease

Guest Editors:

Prof. Dr. Marietta Lee

Department Biochemistry and
Molecular Biology, New York
Medical College, Valhalla, NY
10595, USA

Prof. Dr. Kristin A Eckert

Penn State College of Medicine,
Department of Pathology,
Hershey, PA, USA

Dr. Dong Zhang

Department of Biomedical
Sciences, College of Osteopathic
Medicine, New York Institute of
Technology, Old Westbury, NY
11568, USA

Deadline for manuscript
submissions:
closed (10 October 2022)

Message from the Guest Editors

Faithful duplication of the genome is vital for human fitness and health. The high-fidelity DNA polymerases for DNA replication, DNA damage response, and DNA repair all play essential roles in maintaining the stability of our genome. Mutations in genes involved in DNA replication, DNA damage response, and DNA repair can cause genome instability and affect the normal physiology of various cell types, tissues, and organs, leading to a variety of genetic diseases, including familial breast cancers, Fanconi anemia, and many others. In recent years, great advances have been achieved in understanding how DNA replication, DNA damage response, and DNA repair contribute to the clinical manifestations of various genetic diseases. Most importantly, tremendous strides have been made in developing precision medicine in treating these genetic diseases.

We welcome the submission of reviews, original research articles, and short communications that focus on identification, molecular mechanisms, and novel therapies in these genetic diseases.



mdpi.com/si/115851

Special Issue



genes



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The
University of Alabama at
Birmingham, 1825 University
Blvd, SHEL 814, Birmingham, AL
35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

Why not consider *Genes* for your next genetics paper?

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, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank: JCR - Q2 (*Genetics & Heredity*) / CiteScore - Q2 (*Genetics*)

Contact Us

Genes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](https://twitter.com/Genes_MDPI)