

## Special Issue

# DNA Replication/Repair, and the DNA Damage Response in Human Disease 2023

### 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.

### Guest Editors

Dr. Dong Zhang

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

Prof. Dr. Marietta Lee

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

### Deadline for manuscript submissions

closed (10 October 2023)

G C A T  
T A C G  
G C A T

## Genes

an Open Access Journal  
by MDPI

Impact Factor 2.8  
CiteScore 5.5  
Indexed in PubMed



[mdpi.com/si/162063](https://mdpi.com/si/162063)

*Genes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[genes@mdpi.com](mailto:genes@mdpi.com)

[mdpi.com/journal/  
genes](https://mdpi.com/journal/genes)



G C A T  
T A C G  
G C A T

# Genes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5  
Indexed in PubMed



[mdpi.com/journal/  
genes](https://mdpi.com/journal/genes)



## About the Journal

### Message from the Editor-in-Chief

*Genes* is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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?

---

### 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

---

### 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 and Heredity) / CiteScore - Q2 (Genetics (clinical))