Special Issue

Progress and Applications of Sequencing Technologies

Message from the Guest Editors

Advancements in sequencing technologies have profoundly transformed our understanding of genetics, enabling the high-throughput analysis of entire genomes, transcriptomes, and epigenomes. These innovations have unraveled complex genetic networks and opened new avenues across diverse scientific disciplines. This Special Issue aims at showcasing the latest developments and innovative applications of cutting-edge sequencing technologies, and explore integrating these methods across various research domains, including genomics, transcriptomics, metagenomics, and epigenomics. Topics may encompass technical breakthroughs enhancing sequencing accuracy and efficiency, as well as practical implications in fields such as personalized medicine, agriculture, environmental science, and beyond. By presenting diverse studies and perspectives, this Special Issue seeks to provide a comprehensive overview of how sequencing advancements are transforming scientific practices and fostering discoveries. Topics of interest include, but are not limited to, personalized medicine, evolutionary biology, agriculture, environmental science, forensics, and bioinformatics.

Guest Editors

Dr. Domenico Giosa

Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Messina, Italy

Dr. Maria Papale

Institute of Polar Sciences, National Research Council, Spianata S. Raineri 86, 98122 Messina, Italy

Deadline for manuscript submissions

10 April 2026

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/237624

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

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



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))

