Special Issue

Exploring Nucleolar Organization and Ribosomal Gene Mutations in Human Health and Disease

Message from the Guest Editor

This Special Issue highlights ribosomal genes' emerging and underexplored roles in cellular processes that are fundamental to human health. It focuses on an exciting and evolving area of research—exploring the broader, less understood roles of ribosomal genes beyond their traditional function in ribosome biogenesis.

Here is a breakdown of the key concepts and areas of interest:

- Emerging Functions of Ribosomal Genes in Cellular Homeostasis
- Genome Stability
- Stress Response
- Cell Cycle and Growth Regulation
- Epigenetic Regulation
- 2. Nucleolar Dysfunction and Ribosomal Gene Mutations—A Link to Diseases
- Cellular Senescence
- Age-Related Decline
- Ribosomopathies
- Cancer
- Neurodegenerative Diseases
- 3. Therapeutic Interventions Targeting Ribosomal Gene Pathways
- Small Molecule Modulators
- Gene Editing
- Nutraceuticals and Metabolic Interventions
- 4. Key Questions to Explore
- What are the newly discovered roles of ribosomal genes in cellular homeostasis?
- How do mutations in ribosomal genes drive disease mechanisms beyond ribosome biogenesis?
- Can targeting ribosomal gene pathways provide new therapeutic opportunities?

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/227649

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))

