



genes



an Open Access Journal by MDPI

Current Advances in Network Biology for Disease Understanding

Guest Editors:

Dr. Sujoy Ghosh

1. Duke-NUS Medical School, Singapore 169857, Singapore
2. National Heart Research Institute, Singapore 169609, Singapore
3. Pennington Biomedical Research Center, Baton Rouge, LA 70808, USA

Dr. Enrico G. Petretto

1. Duke-NUS Medical School, Singapore 169857, Singapore
2. Faculty of Medicine, Institute of Clinical Sciences, Imperial College London, London W12 0NN, UK

Deadline for manuscript submissions:

closed (31 December 2019)

Message from the Guest Editors

Dear Colleagues,

Network science is currently a highly active area of biological research. This is due to the confluence of a triumvirate of factors: (i) the generation and access to explosively large volumes of “omics” data from high-throughput experiments (ii) the intensive development of deep computational methodologies and data visualization tools for the analysis of complex networks; and (iii) the urgent need for new approaches to interrogate complex disorders to effect transformative changes in clinical care.

This Special Issue is dedicated to highlighting the current frontline status of network research. We welcome the submission of reviews, research articles, and short communications encompassing diverse aspects of network science, including computational approaches, investigations of network behaviour in molecular- to population-level datasets, and experimental manipulation of network components for testing predicted robustness and vulnerabilities in the context of network medicine.

Dr. Sujoy Ghosh

Dr. Enrico G. Petretto

Guest Editors



mdpi.com/si/22025

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

Contact Us

Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](#)