



*genes*



an Open Access Journal by MDPI

## Pipeline Tools for Next Generation Sequencing Analysis

Guest Editor:

**Dr. Thomas Carroll**

Bioinformatics Resource Centre,  
The Rockefeller University, New  
York, 10065 NY, USA

Deadline for manuscript  
submissions:

**closed (31 March 2020)**

### Message from the Guest Editor

Dear Colleagues,

The use of Next Generation Sequencing (NGS) technologies in the interrogation of hypotheses has become increasingly common in medical and biological research. With the advent of multiplexing technologies, the increase in sequence output from NGS machines and the development of novel applications for NGS, the complexity of high-throughput sequencing experiments has increased coordinately. The analysis of data from this diverse range of NGS applications requires a complex interaction between generic NGS data processing and application specific software tools while maintaining the high levels of reproducibility required in research. The use of pipelines and workflows in the analysis of NGS applications offers not only a high-throughput, automated processing and analysis of the data but a mechanism to enhance reproducibility and establish best practices in the analysis of NGS application types.

In this Special Issue, the contributing authors will present the most recent developments in pipelines and workflows for the analysis of both established and emerging NGS sequencing applications and technologies.

Dr. Thomas Carroll

*Guest Editor*



[mdpi.com/si/16794](https://mdpi.com/si/16794)

# 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](http://www.mdpi.com)

[mdpi.com/journal/genes](http://mdpi.com/journal/genes)  
[genes@mdpi.com](mailto:genes@mdpi.com)  
[X@Genes\\_MDPI](#)