Special Issue

Evolution of Non-coding Elements in Genome Biology

Message from the Guest Editor

The evolutionary process through which species mutate to change their heritable characteristics over time is one of the most fundamental processes that govern biological life on earth. While some mutational changes occur in gene coding regions, the vast majority occur in the non-coding portion of the genome, which contains many transposable elements and DNA repeats. Recent improvements in DNA sequencing and computational analysis are starting to reveal the role of these regions in the cis-regulation of gene expression. What is becoming apparent is that these changes can alter the binding of transcription factors and their chromatin regulators to change genome organization and function.

With this Special Issue, we will be focussing on the recent advances achieved in our understanding of the evolution of non-coding elements in genome biology. We encourage submissions that discuss novel findings or concepts concerning the structure, function, organisation and expression of genomes in the context of their relationship with either cis-regulatory transposable elements, natural genome diversity or disease progression.

Guest Editor

Dr. David Lando
Department of Biochemistry, University of Cambridge, Cambridge, UK

Deadline for manuscript submissions

closed (20 February 2025)

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

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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

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