Special Issue

How Do New Genes Originate and Evolve?

Message from the Guest Editors

Every species has its own distinct genetic makeup and they underlie the great diversity of molecular functions and morphologies. How new genes with functional novelties originate is a fundamental evolutionary problem, having attracted a wide range of attention from scientists to audiences outside the scientific community. With the advent of the high throughput genome sequencing, powerful gene editing and precision molecular biological analyses, the evolutionary and functional properties of new genes are being unveiled. Consequently, the study of new genes has become more accessible and feasible, not only for model species but also for non-model organisms. revealing their evolution and often functional importance. The scientific questions that are explored to understand new genes can be enounced but they are not limited to: How do new genes originate and for what functions? What evolutionary forces operate during their acquisition? Are there any patterns or rules in the molecular mechanisms responsible for the origination of new genes? What are the rates of new gene origination in different lineages? We hope to receive a diverse set of submissions.

Guest Editors

Prof. Manyuan Long

Department of Ecology and Evolution, The University of Chicago, Chicago, IL, USA

Prof. Esther Betran

Department of Biology, University of Texas at Arlington, Arlington, TX, USA

Deadline for manuscript submissions

closed (15 September 2022)

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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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