



genes



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How Do New Genes Originate and Evolve?

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Deadline for manuscript
submissions:

closed (15 September 2022)

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.



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Special Issue



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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.

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