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Functional Evolution of Sex Chromosomes

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Message from the Guest Editors

Sex chromosomes evolved independently multiple times. Two alternative modes of sex determining and sex chromosome systems have evolved in all characterised organisms, but variations and departures from these two systems are common rather than being coincidences. Genes on sex chromosomes not only play an important role in sex determination and gonadal differentiation, they are also involved in many critical functions such as brain development and growth. Recent investigations using modern genomic and advanced cytogenetic tools on a number of organisms have provided intriguing and unique evolutionary dynamics of sex chromosomal genes; however, the best way to delineate the unique functional evolution pathways of sex chromosomes in most lineages remains largely unclear. More information is required concerning the dynamics of the evolution of sex chromosomal gene function. This Special Issue will highlight this across different groups of organisms including their sequence content (genes and transcript) and chromatin conformation.

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Special Issue



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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?

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