Special Issue

Models and Advances in Genetics of Down Syndrome

Message from the Guest Editor

Down syndrome (DS) is the most common form of intellectual disability (ID) in the world. This disorder is caused by an extra copy of chromosome 21 (Hsa21). Many features appear during the lifetime, some with higher risk during the early phase in persons with DS, suggesting that specific genetic associated to trisomy 21 predispose to some disorders. In the last years, a series of new studies, both at the cellular and organismal levels, have raised the understanding about the genetics of DS, the identification of pathways and driver genes, and the validation of several therapeutic avenues at the preclinical level. They have also highlighted the alteration of several biological processes during development or in the adult, and unravelled new unexplored dimensions such as neurodevelopmental alterations, the origin of DS comorbidities, the evolution of the condition over the entire lifespan, the onset of Alzheimer's disease, prenatal and over the life treatment. In this special issue we would like to gather reviews or manuscripts that focus on these topics to better understand the genetics of DS and to propose alternative for reducing its impact in human.

Guest Editor

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Deadline for manuscript submissions

closed (1 September 2021)

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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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Editor-in-Chief

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