Special Issue

Genetic Architecture in Complex Traits

Message from the Guest Editor

The emergence of new genetic technologies is a key aspect of progress in the development of molecular medicine. Thanks to these technologies, it is possible to identify the causes of rare monogenic diseases, improve prevention, and improve the effectiveness of the treatment of common complex and infectious diseases.

Today, with an idea of inheritance type, the pathogenetic mechanism of disease development, and the population frequency of SNVs/SNPs, it is possible to annotate and clinically interpret pathogenic variants. However, the natures of these diseases remain unclear: polygenic, oligogenic or multifactorial? It is assumed that this is determined by the contribution of different gene variants, as well as their expressiveness and penetrance. An important feature of the results of modern NGS research methods is that we can detect several hereditary diseases in one person at once. Such findings create difficulties for clinical interpretation, but are extremely important when consulting patients.

The aim of this Special Issue is to provide an updated view of the current research on the underlying genetic mechanisms of monogenic and common complex and infectious diseases.

Guest Editor

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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

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