Genetics and Genomics of Addiction

Guest Editor:

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Deadline for manuscript submissions:
closed (15 October 2022)

Message from the Guest Editor

With the opioid epidemic occurring during the global COVID-19 pandemic, substance use disorder (SUD) has been on the rise. Our current research on the genetic susceptibility to addiction contributes to our understanding of the mechanisms of SUD. These mechanisms lie at the heart of the development of novel pharmacotherapies to facilitate the treatment of SUD.

The aim of this Special Issue is to bring together researchers of SUD across various drugs of abuse and experimental systems to describe current status of addiction genetics. SUD is unique in that the progression to disease requires an exposure to an environmental factor, a drug. Sequenced genomes, new animal model resources, and GWAS of large sample sizes have made vast inroads into our understanding of the genetics underlying addiction. Future mechanistic studies will be driven by integrating big data produced across animal models and human studies to identify their consilient features. This issue will cover topics related to genes, genetics and genomics of addiction, including but not limited to: human genetics, systems genetics, gene expression, -omics, bioinformatics, cross-species analysis, animal models.

Special Issue

Editor-in-Chief

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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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