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Functional Investigations of Type 1 Diabetes Candidate Genes in Cellular and Animal Models

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Message from the Guest Editors

Through the remarkable advancement in human genetics in recent decades, multiple loci that affect the risk of developing T1D have been discovered. For most of the T1D-associated loci, however, the causal candidate genes and variants linked to disease risk remain undefined. To obtain a better understanding of the molecular basis of T1D genetics, it is important to identify the specific disease-promoting genes and variants in the risk loci and to functionally evaluate them in relevant biological model systems.

In this Special Issue, we welcome reviews, new methods, and original articles covering many aspects of functional T1D candidate gene studies. These include, but are not limited to, computational studies to pinpoint causal candidate genes, expressional regulation of T1D loci-associated genes in relevant tissues (such as immune cells and pancreatic islets/b-cells), the impact of candidate genes on immune cell function, the impact of candidate genes on b-cell function and apoptosis (e.g. loss- and gain-of-function studies), and functional studies of candidate genes in animal models (such as knockout mice). We look forward to your contributions.



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Special Issue



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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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