

Special Issue

Diabetes: Genetics and Genomics, Hormone Regulation, and Metabolic Control

Message from the Guest Editor

Diabetes is a heterogeneous disease with different types, which are influenced by a complex array of genetic and genomic factors that shape their development, progression, and response to treatment. Advances in genomics have opened new avenues for understanding the hereditary aspects of these conditions, from monogenic forms of diabetes to the more intricate polygenic risk factors associated with the different types of diabetes. The integration of genetics with endocrinology has also shed light on the molecular mechanisms governing hormone regulation and metabolic balance, offering new perspectives on disease pathophysiology.

This Special Issue will highlight cutting-edge research and reviews on genetic and genomic contributions to diabetes. We invite submissions addressing (1) genetic variations and their role in diabetes susceptibility; (2) the genomics of insulin production, hormone action, and metabolic regulation; (3) epigenetic modifications influencing disease progression; (4) interactions between genetic predispositions and environmental factors; and (5) applications of genomic data for precision medicine approaches in diabetes.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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